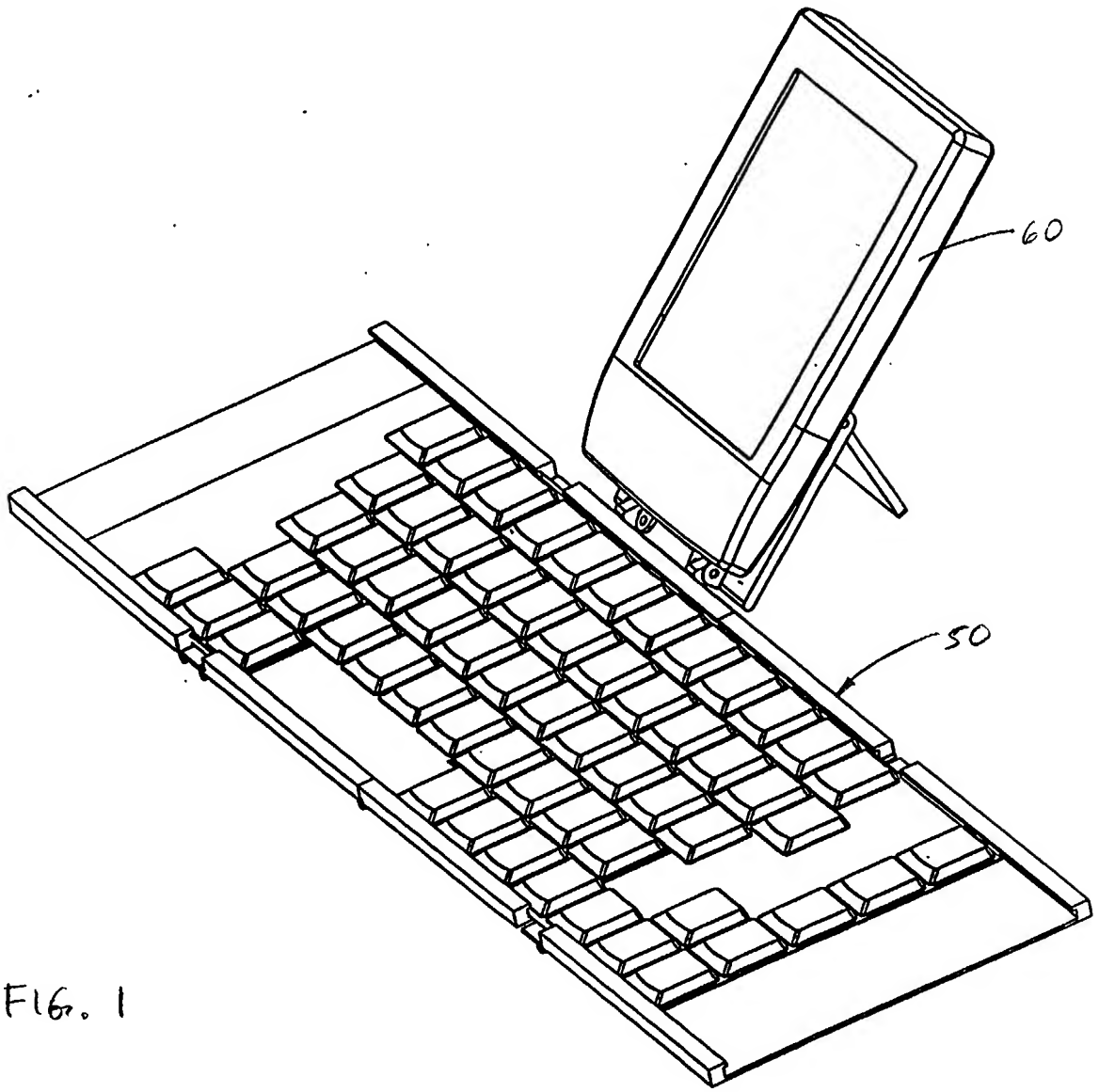
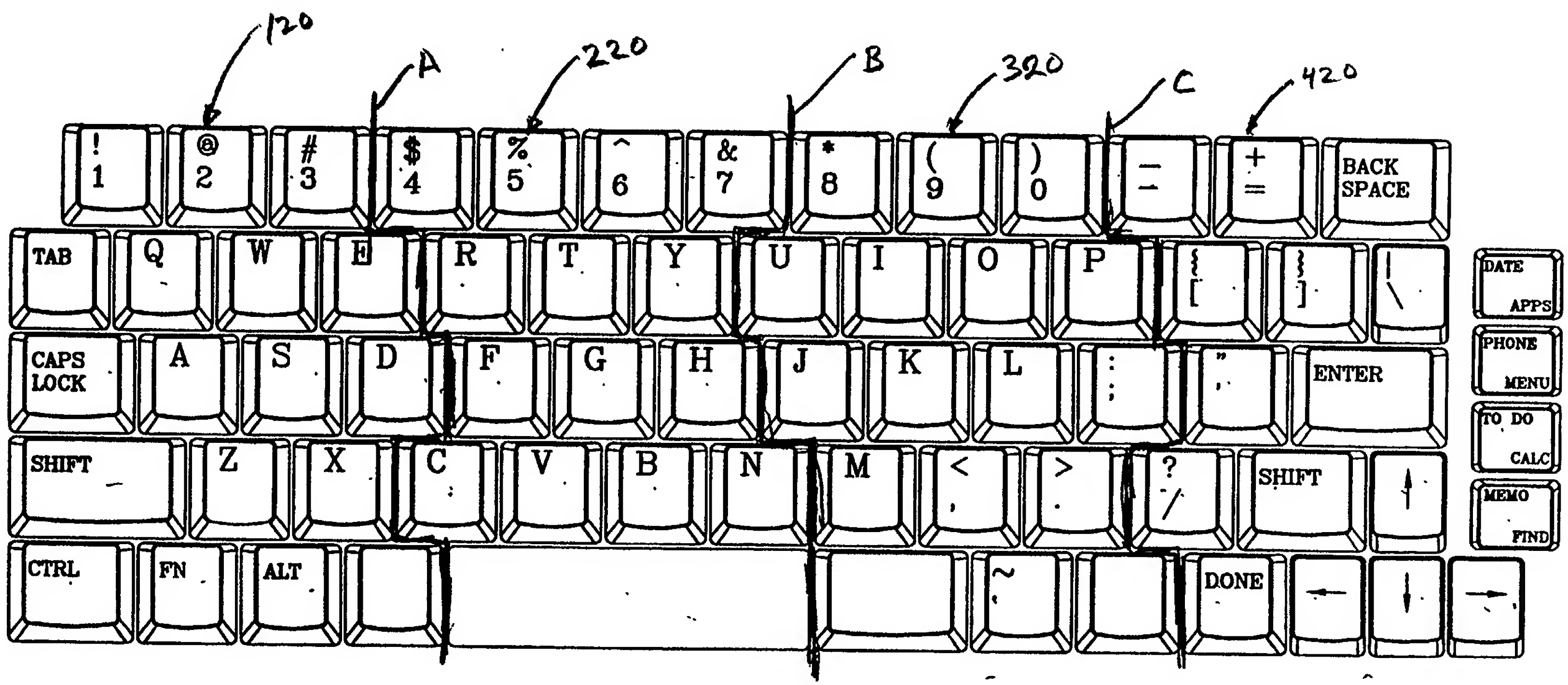


FIG. 1


120
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% 5
^ 6
& 7
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FIG. 2

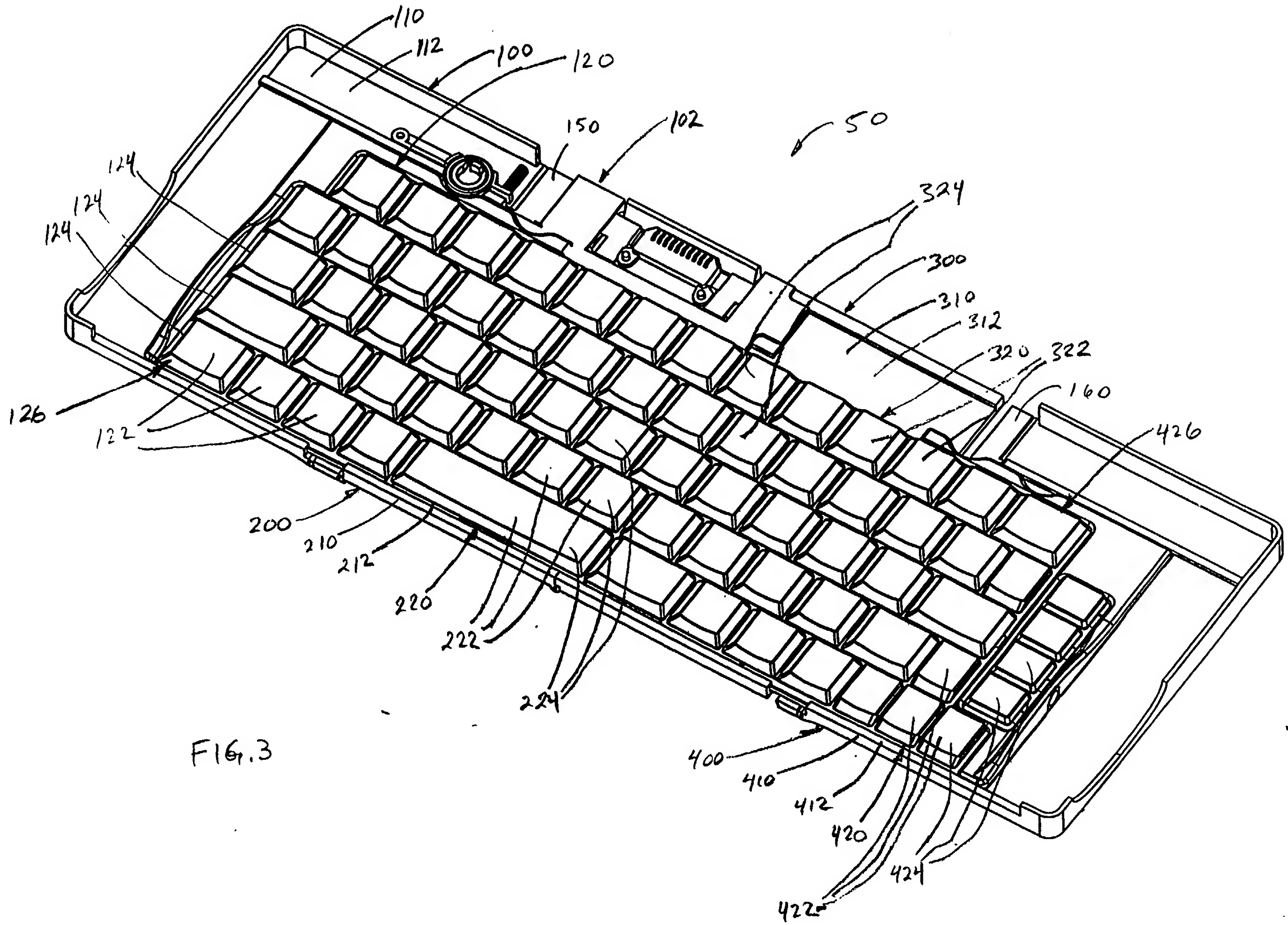


FIG. 3

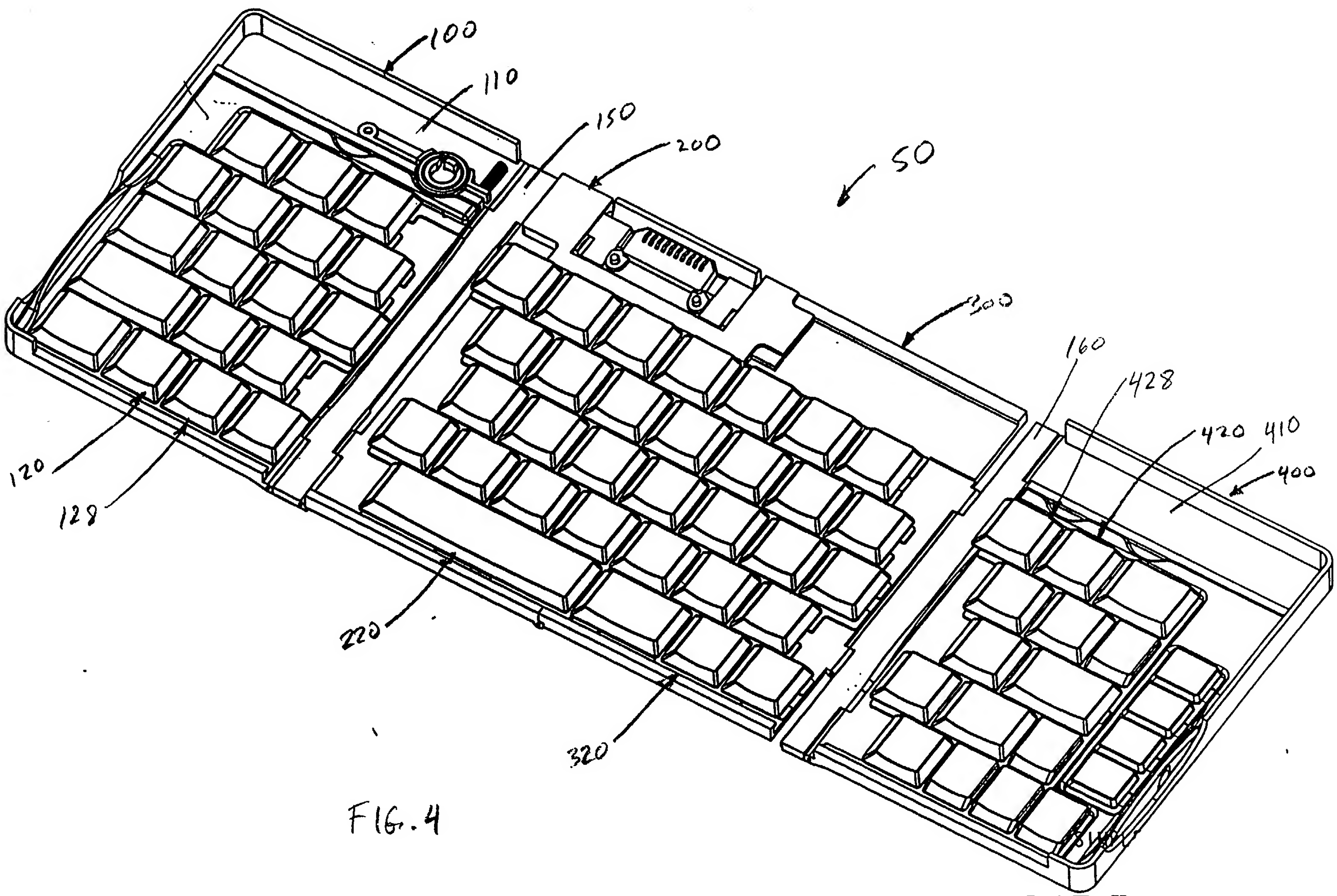


FIG. 4

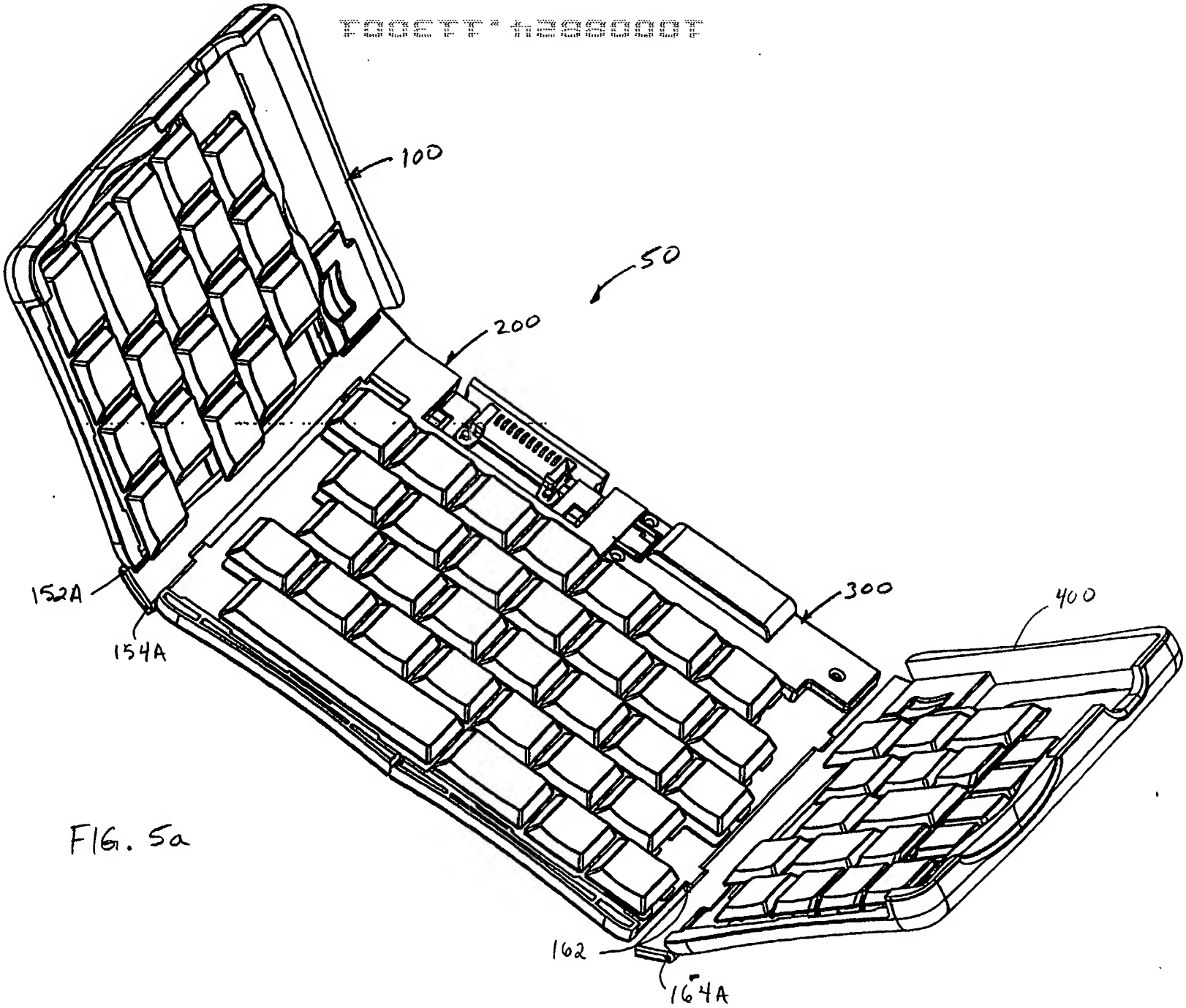
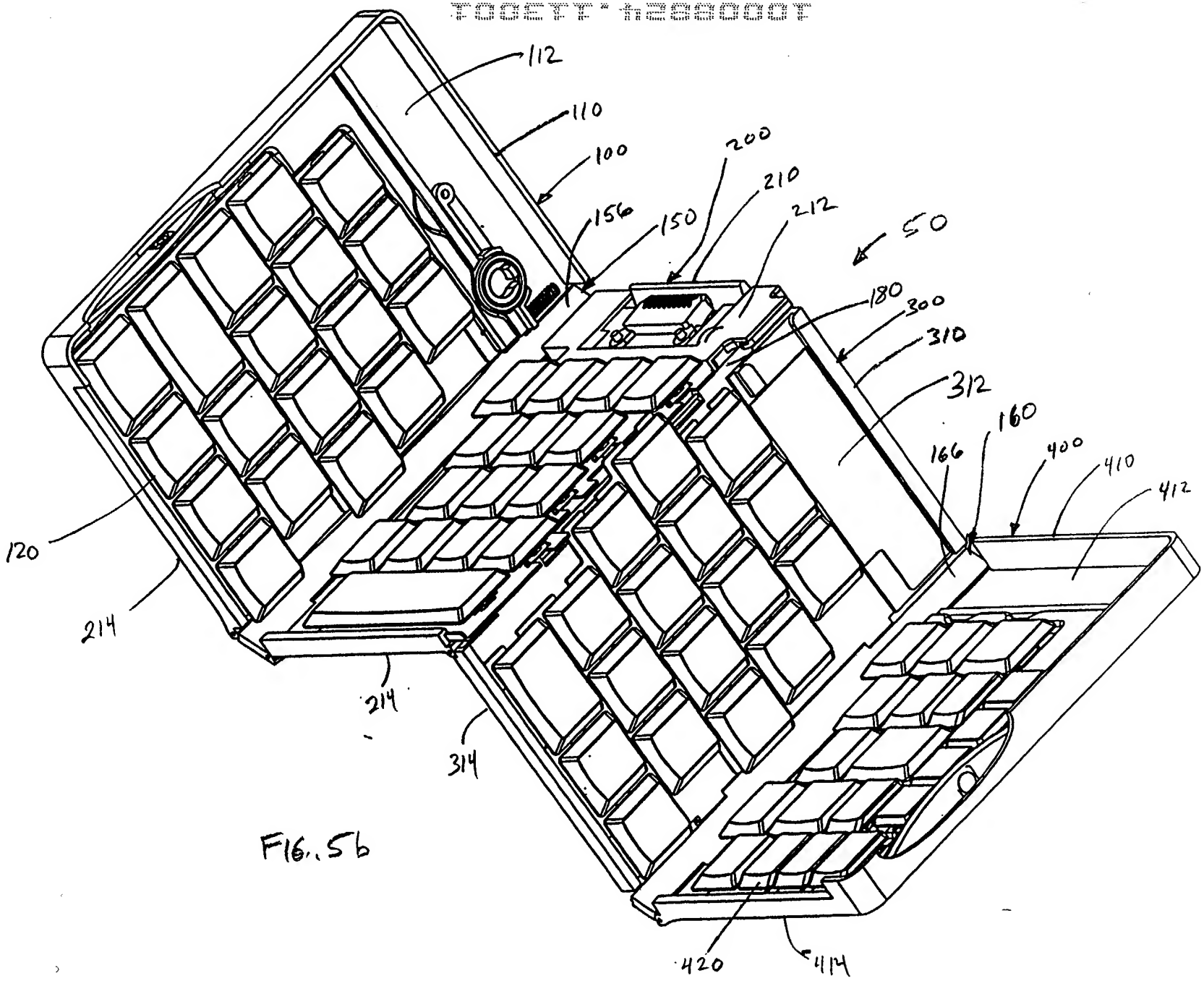


FIG. 5a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214
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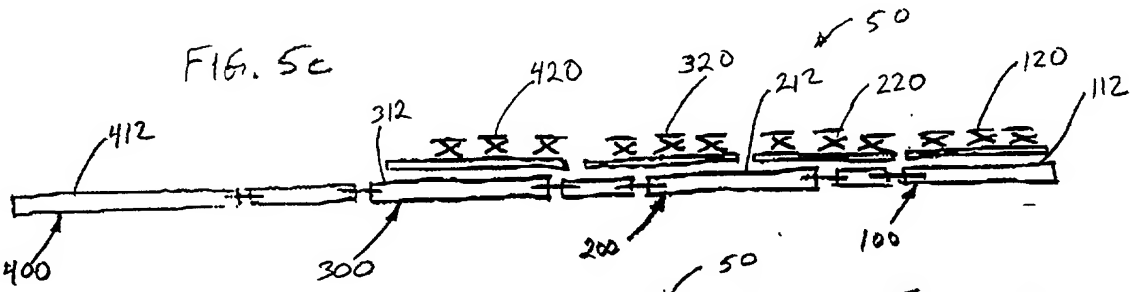
420
414

FIG. 5b

FIG. 5c



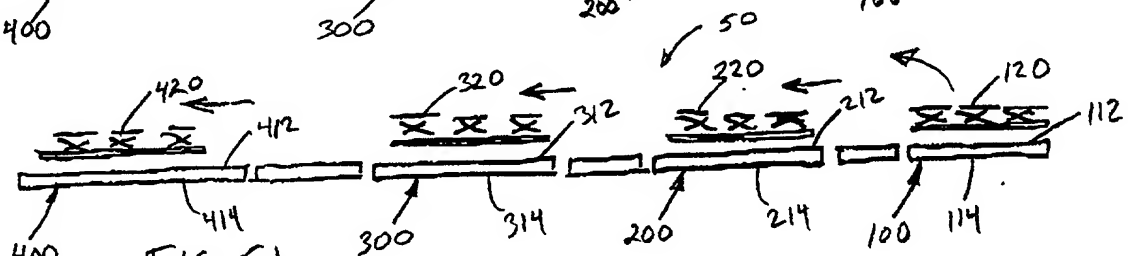


FIG. 5d

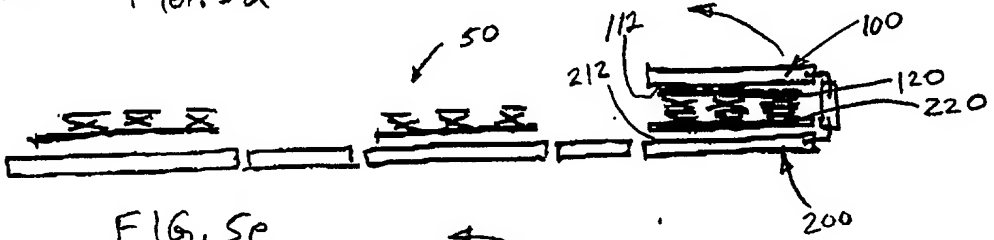


FIG. 5e

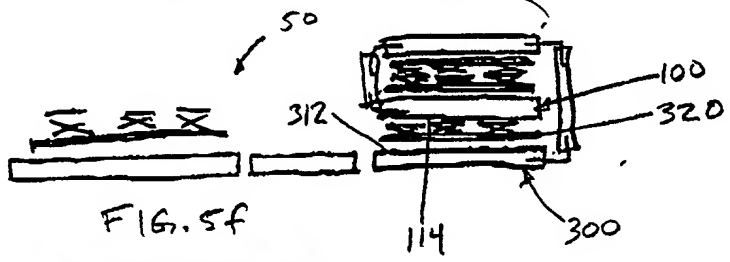


FIG. 5f

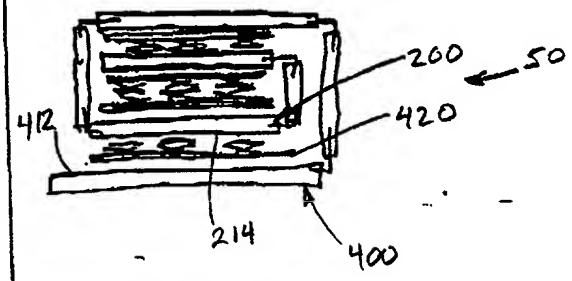
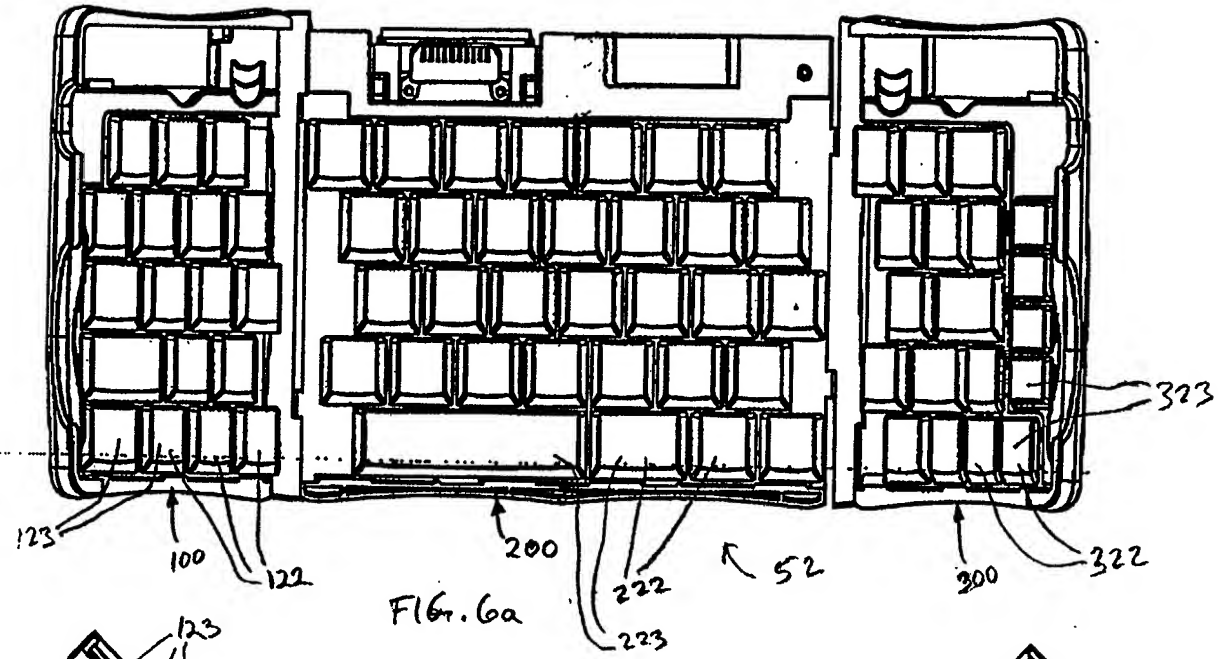


FIG. 5g


323
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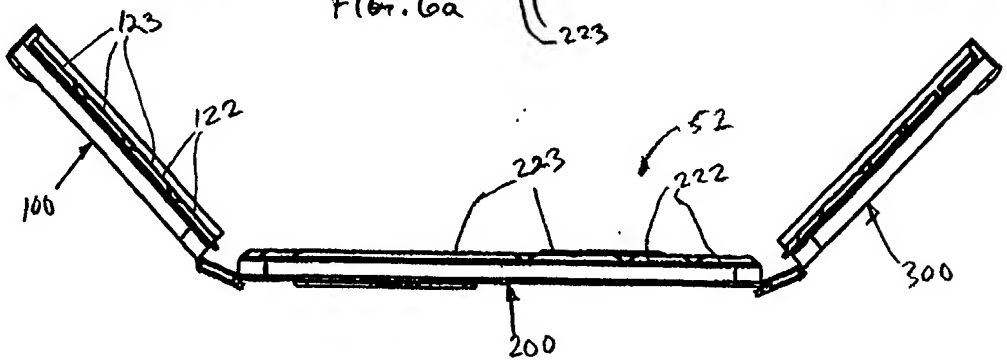
322
223

FIG. 6a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52
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300
200

FIG. 6b

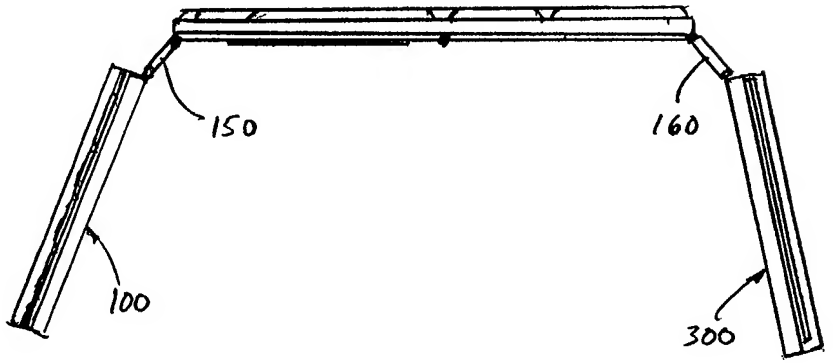


FIG. 6C

Fig. 6D

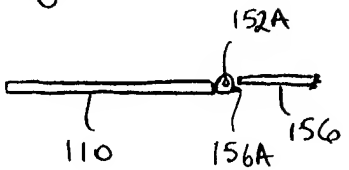
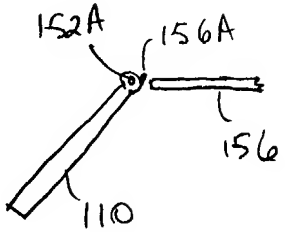
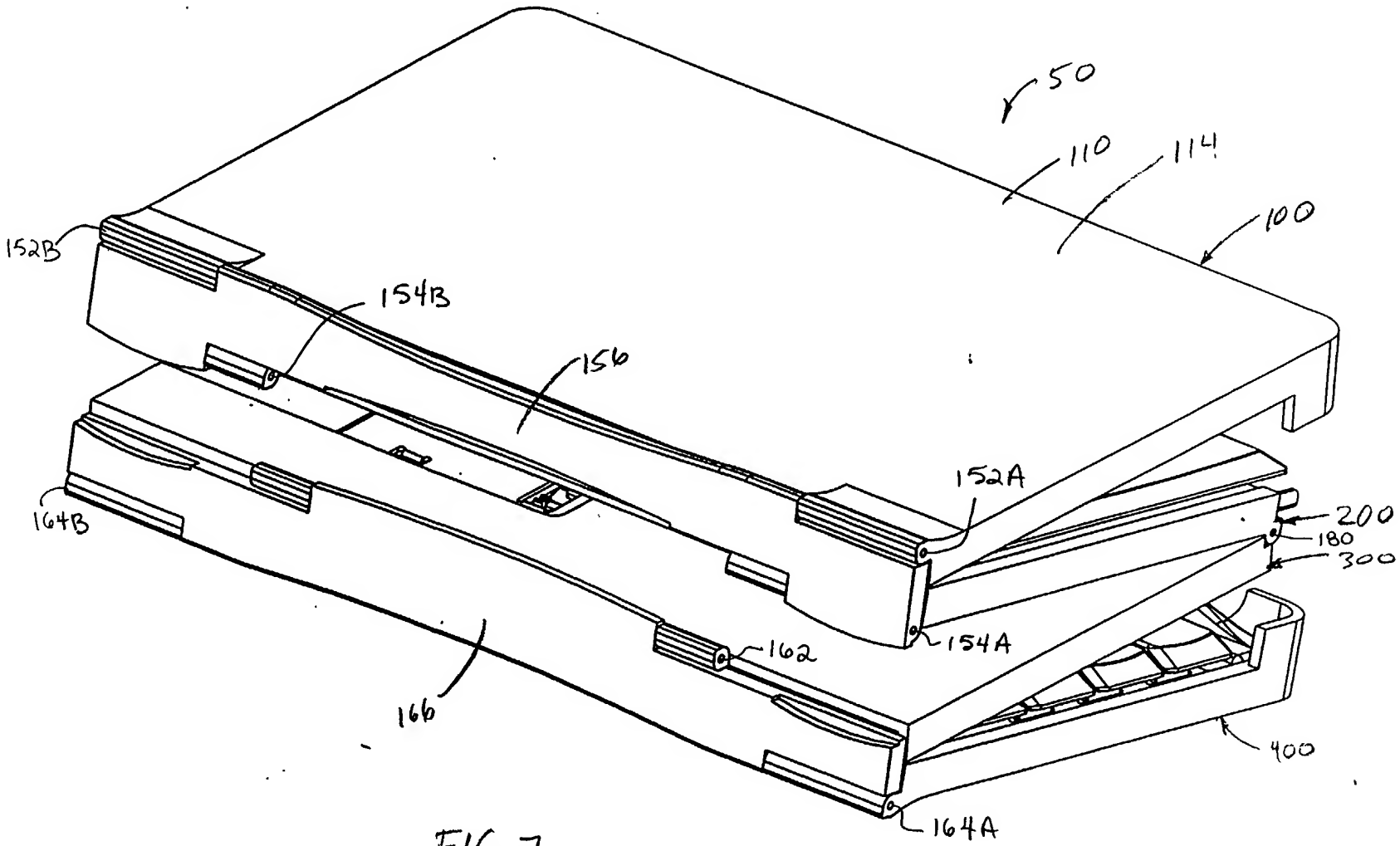


Fig. 6E




50
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114
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152B
154B
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152A
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164B
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154A
166
400
164A

FIG. 7

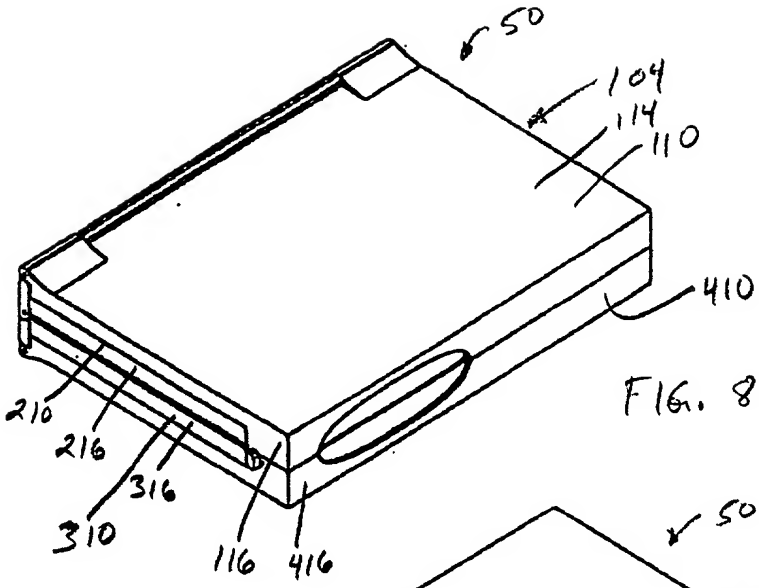


FIG. 8

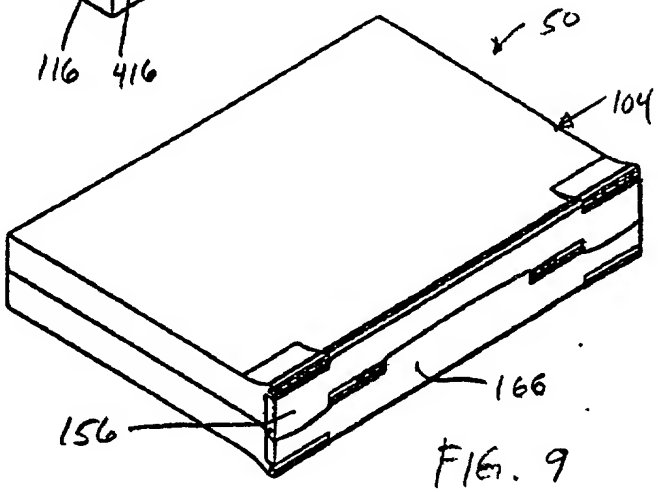


FIG. 9

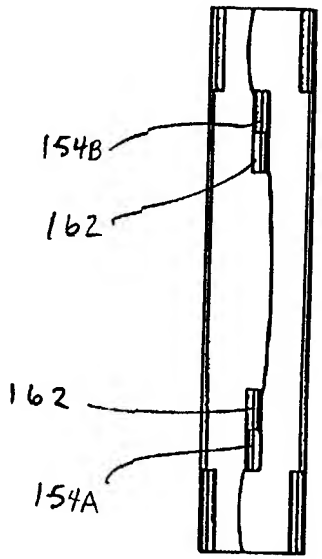


FIG. 11

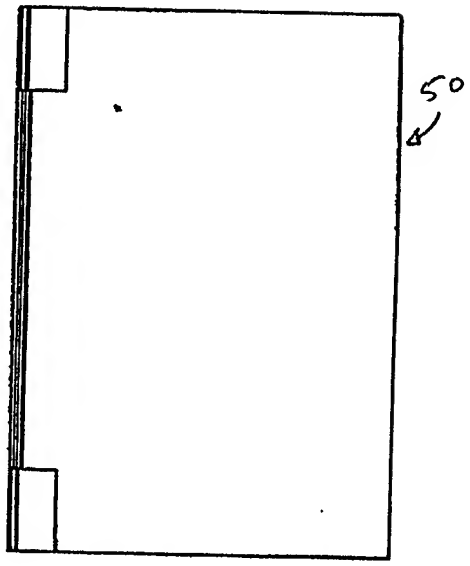


FIG. 10

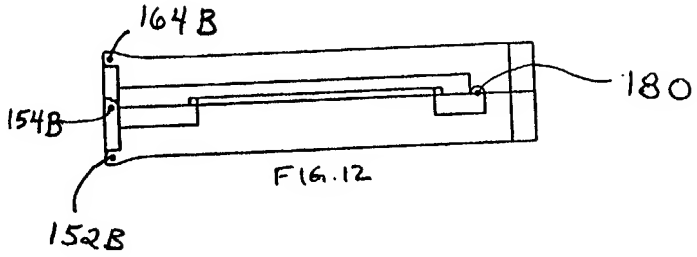


FIG. 12

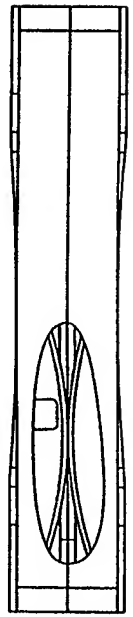


FIG. 13

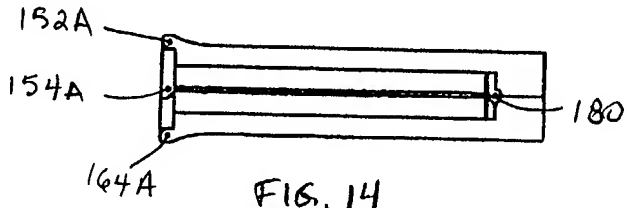


FIG. 14

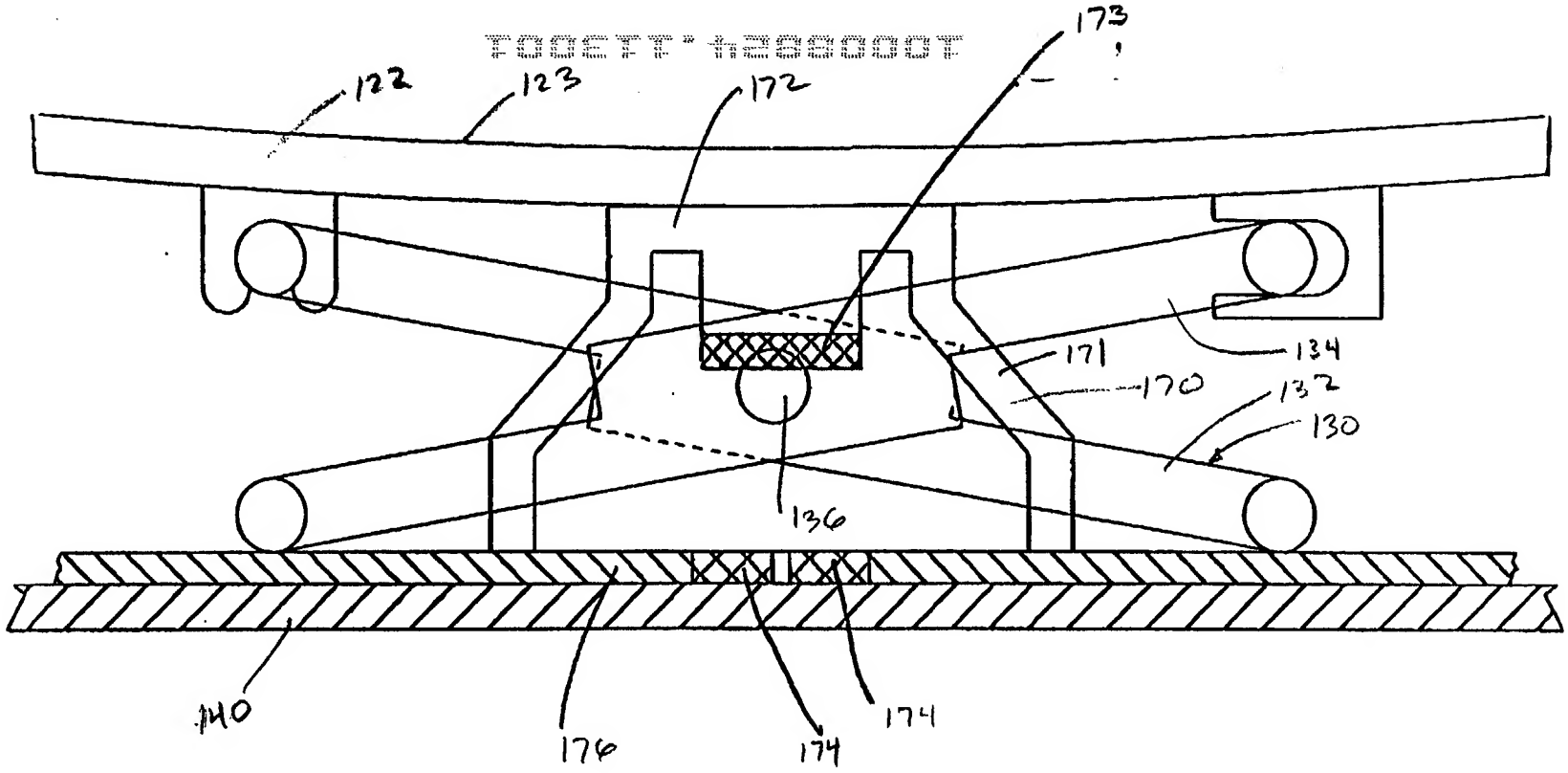


FIG. 15a

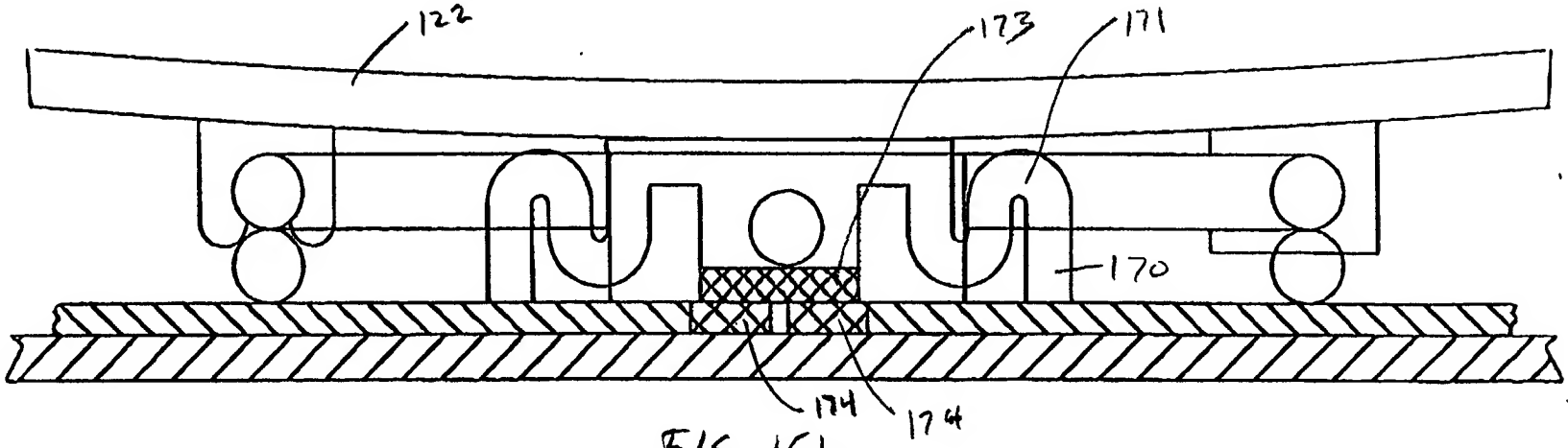
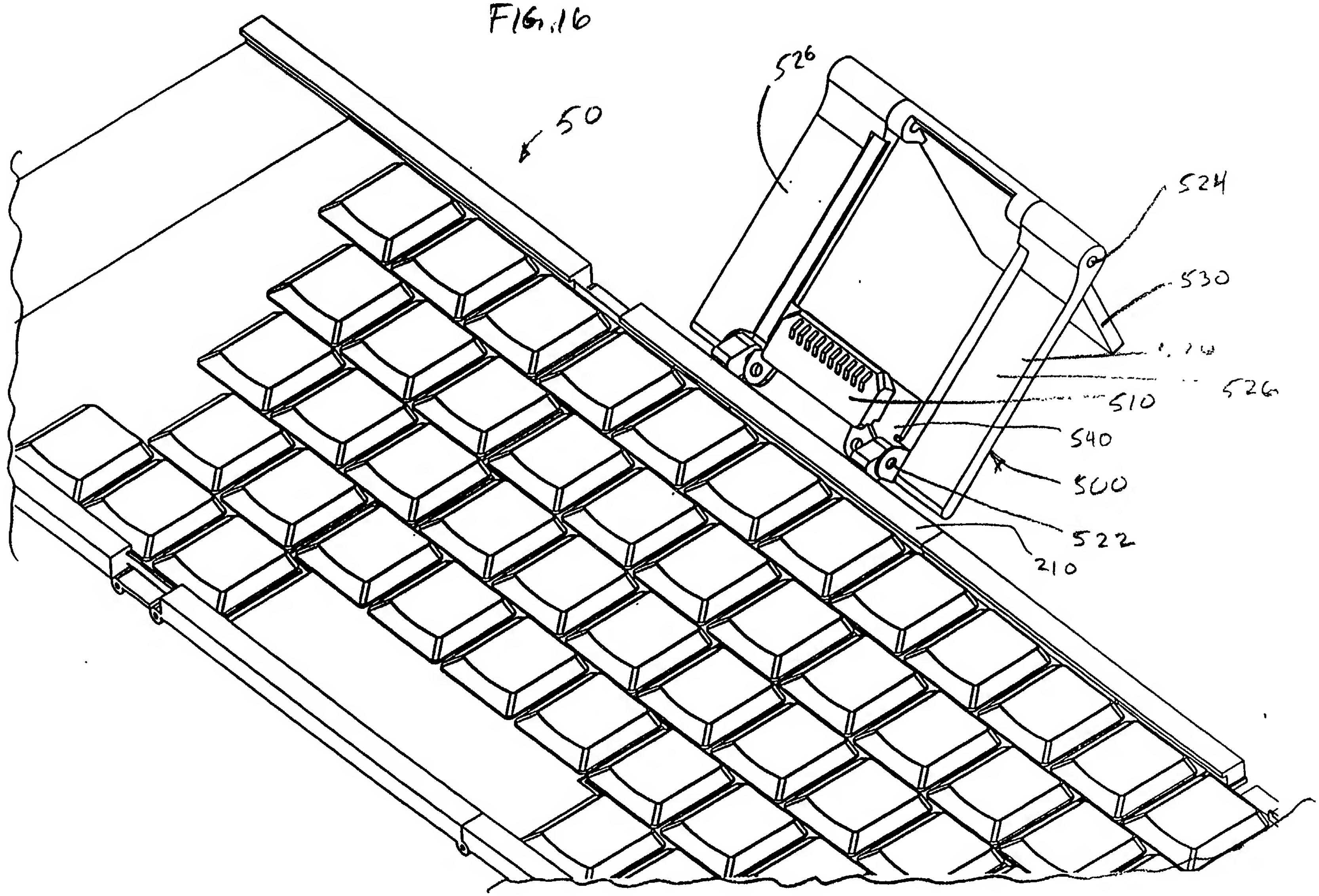
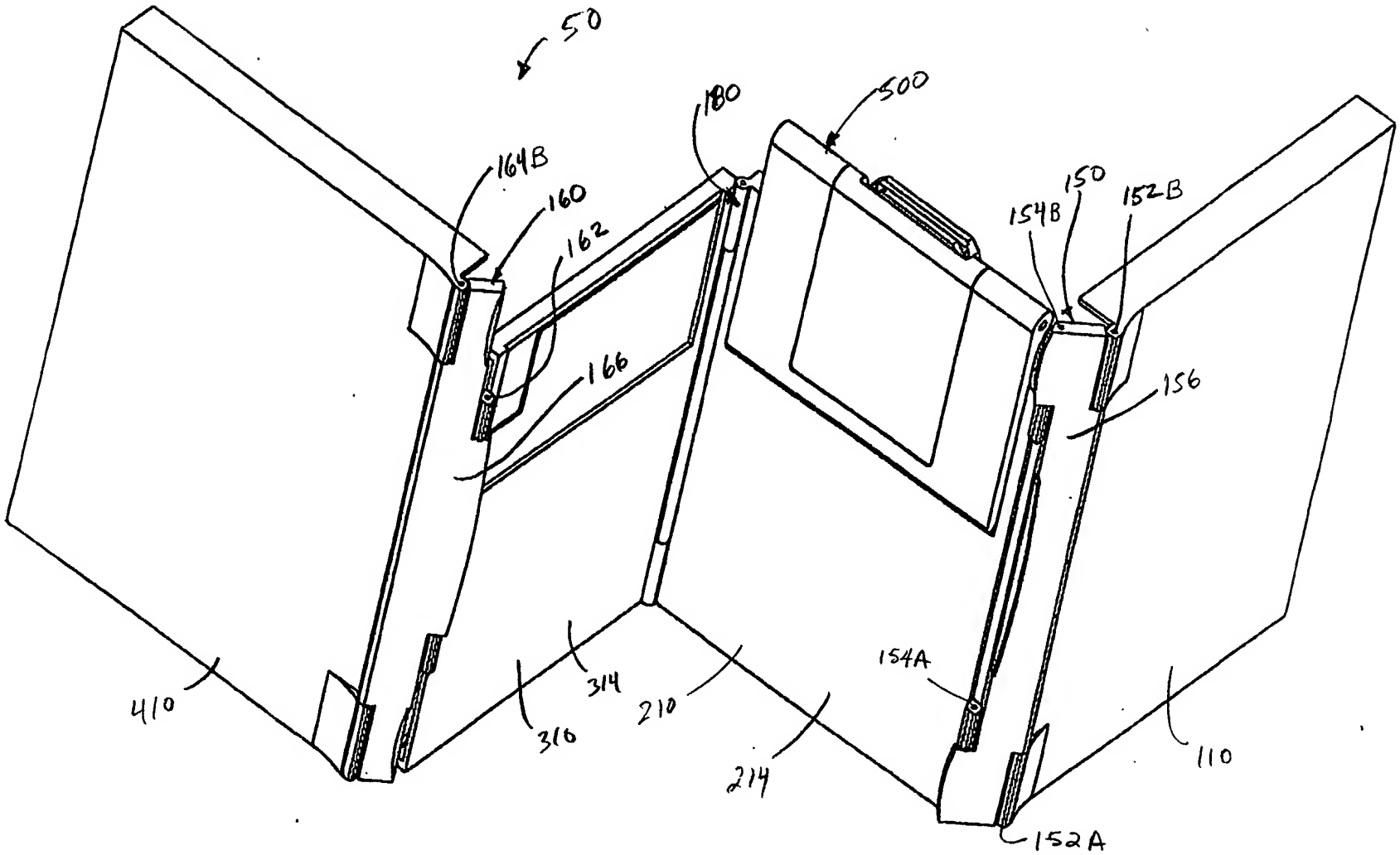


FIG. 15b

FIG. 16




50
180
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150
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156
154A
410
310
314
210
214
110
152A

FIG. 17

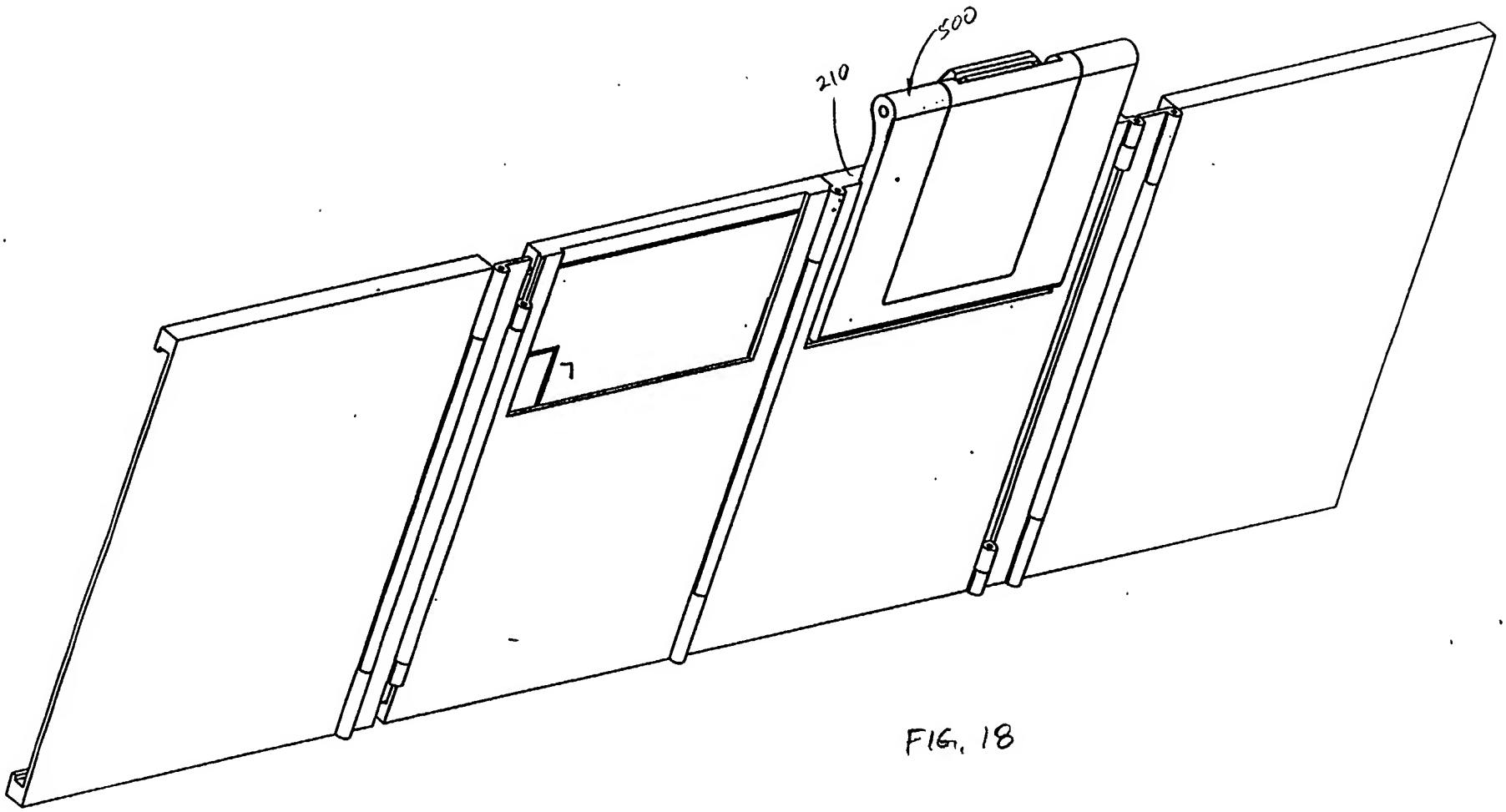


FIG. 18

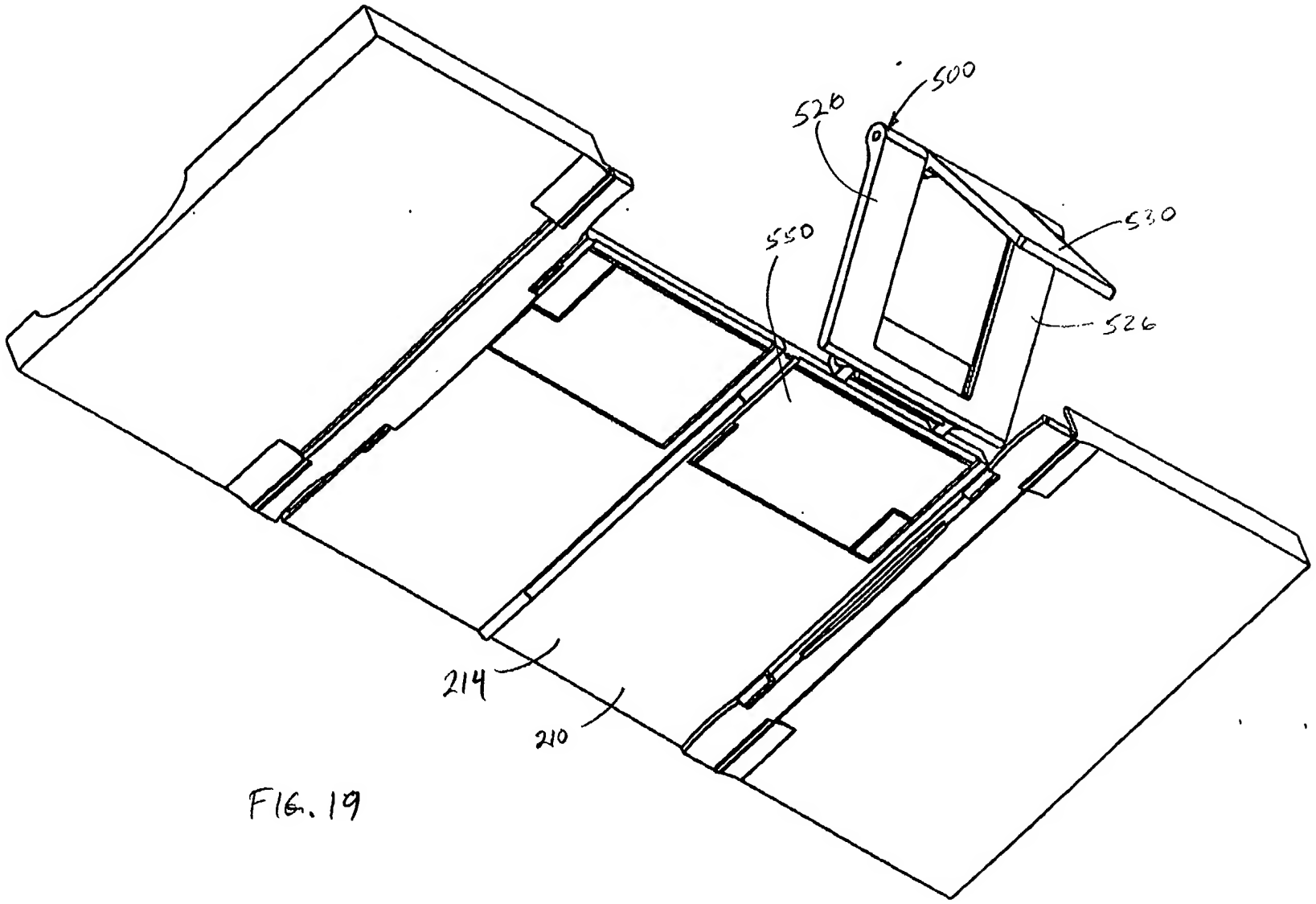


FIG. 19

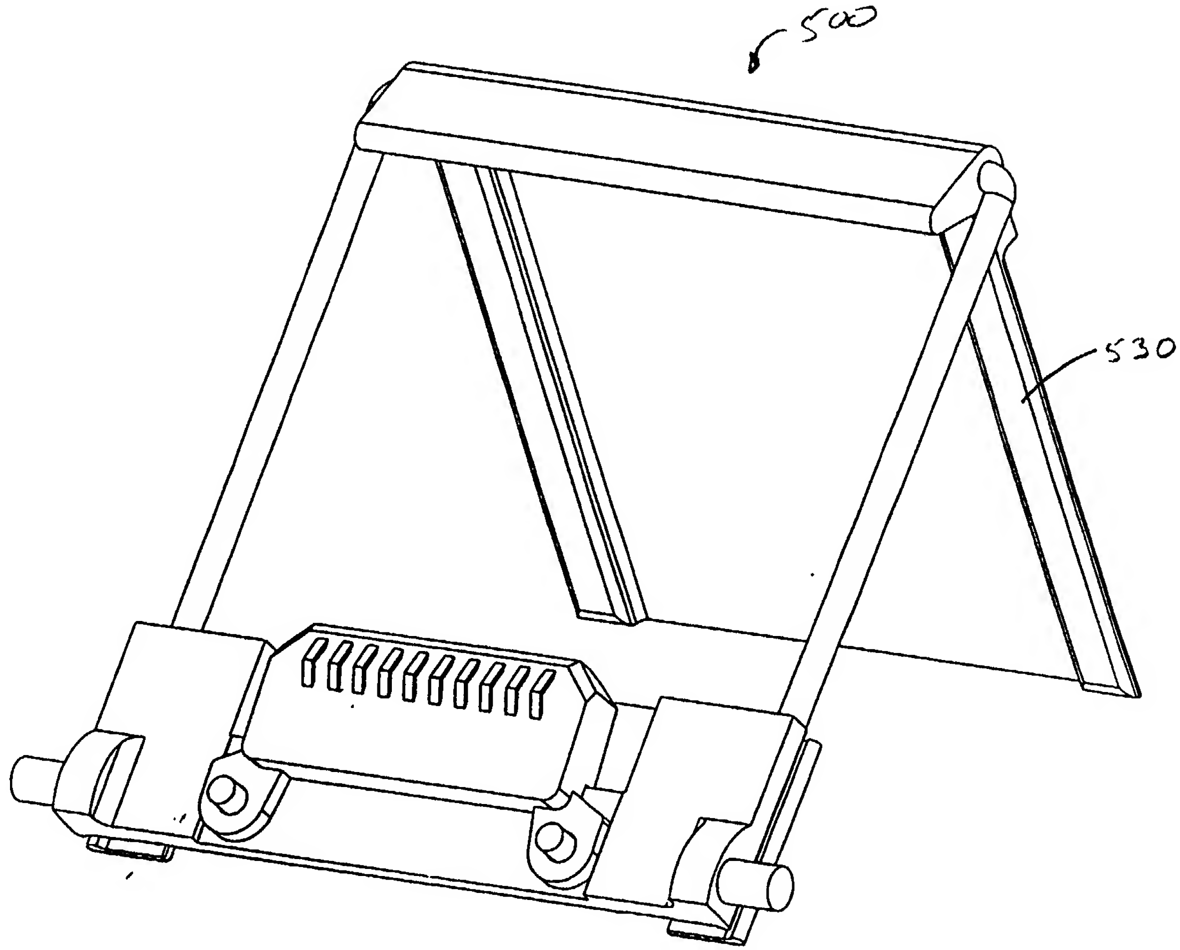


FIG. 20a

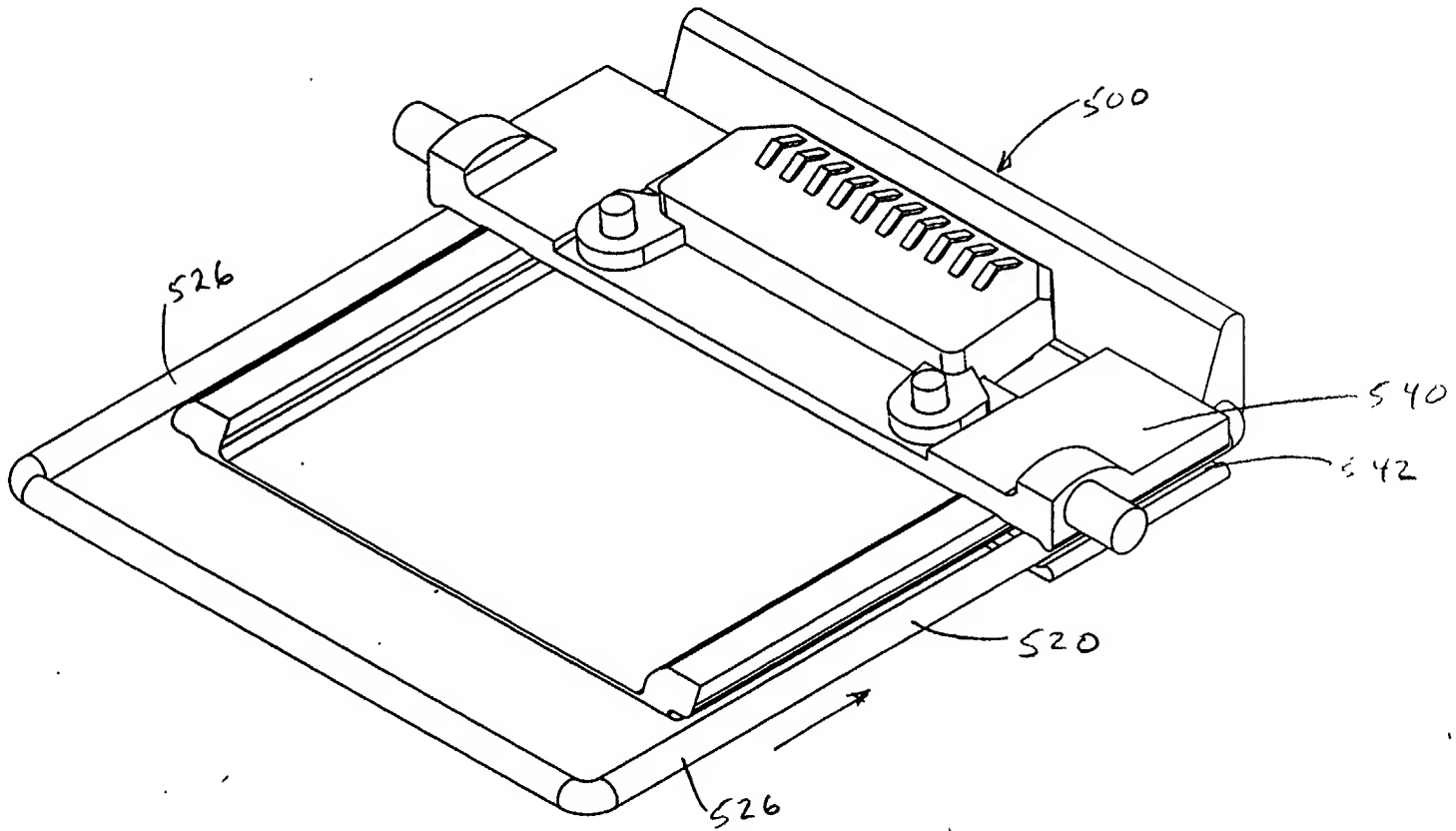


FIG. 20b

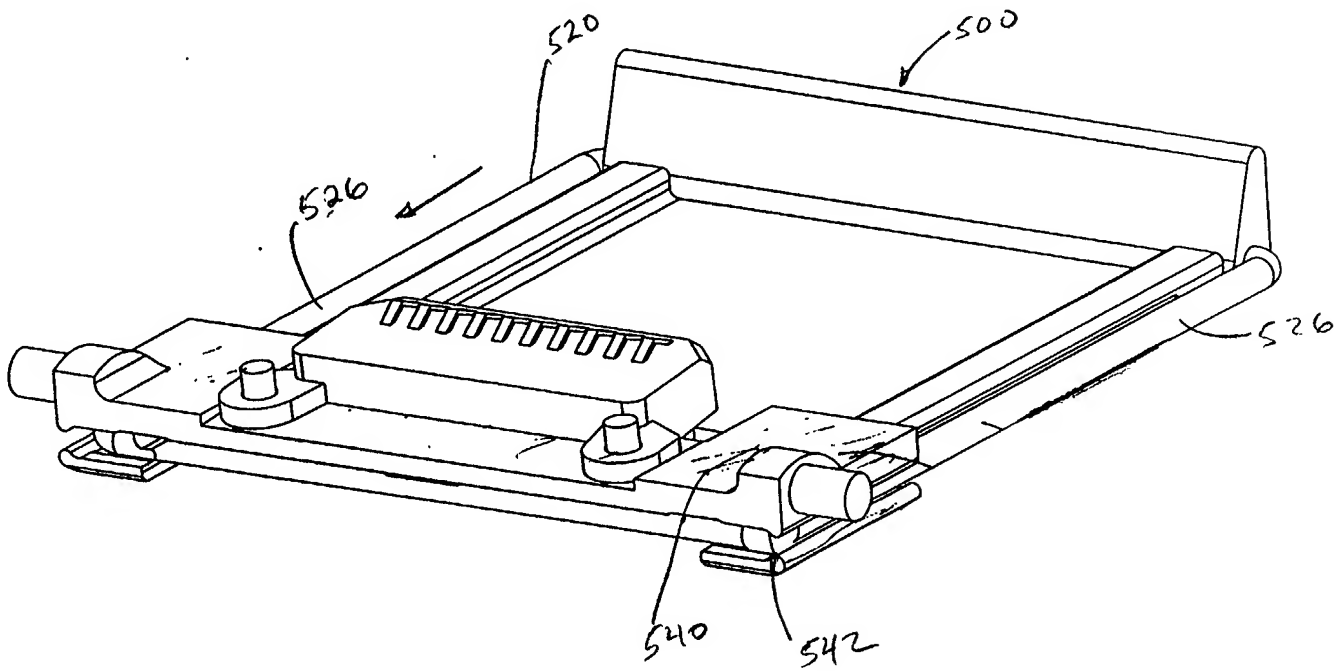


FIG. 20c

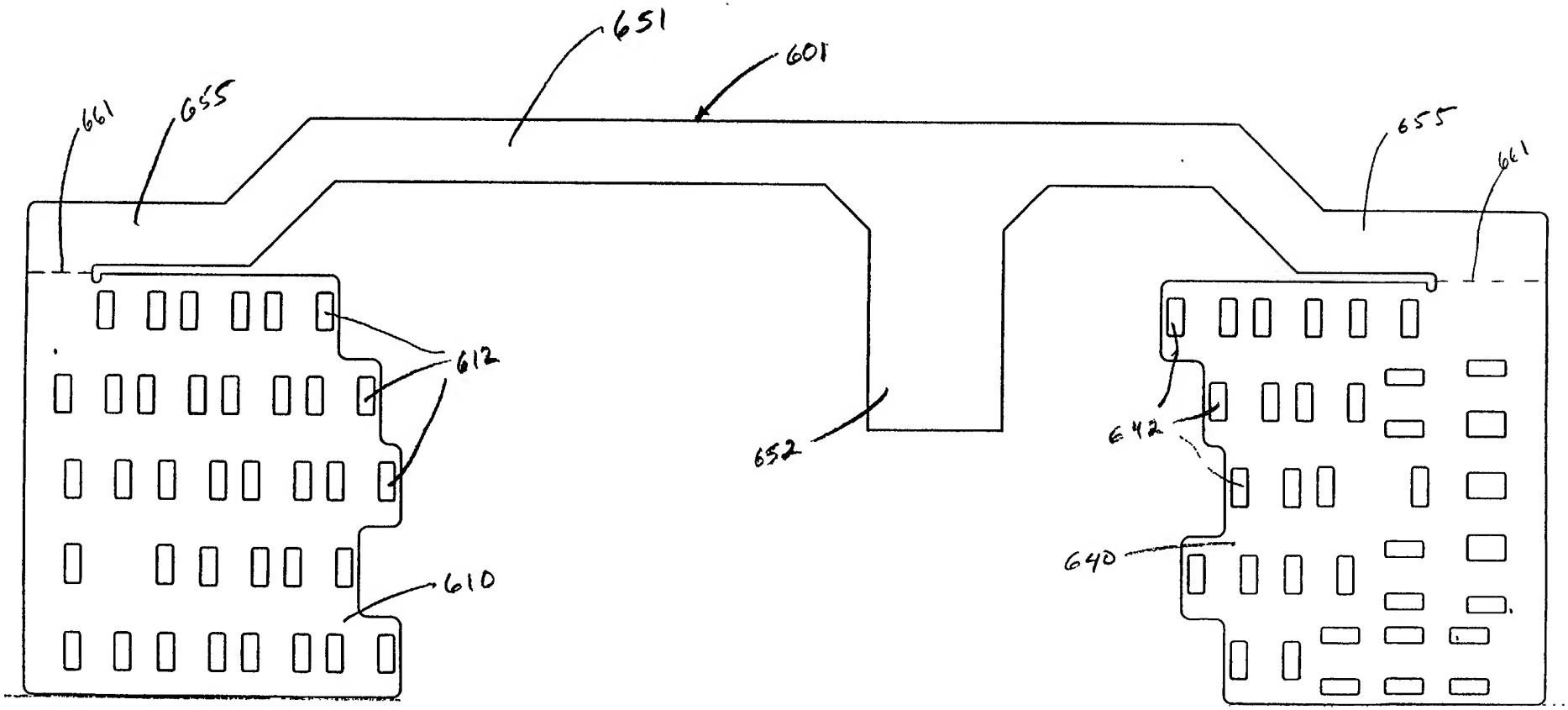


FIG. 21

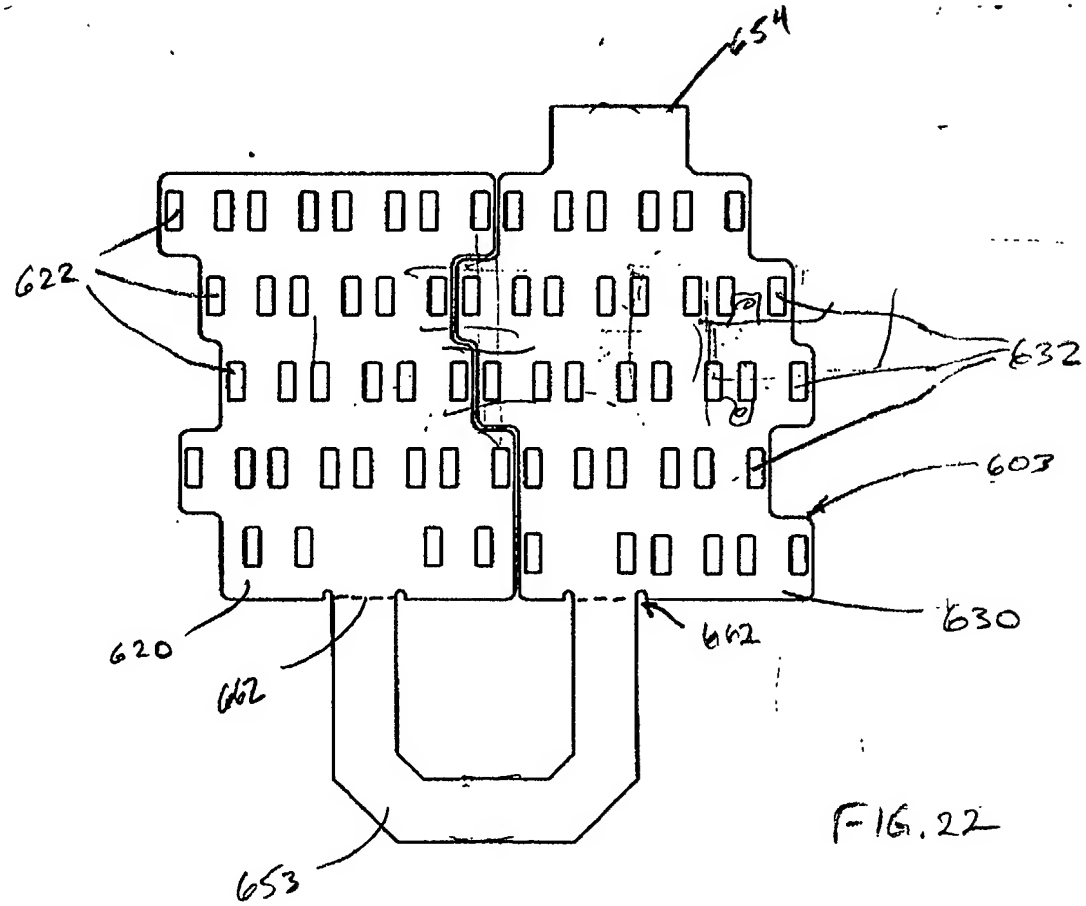


FIG. 22

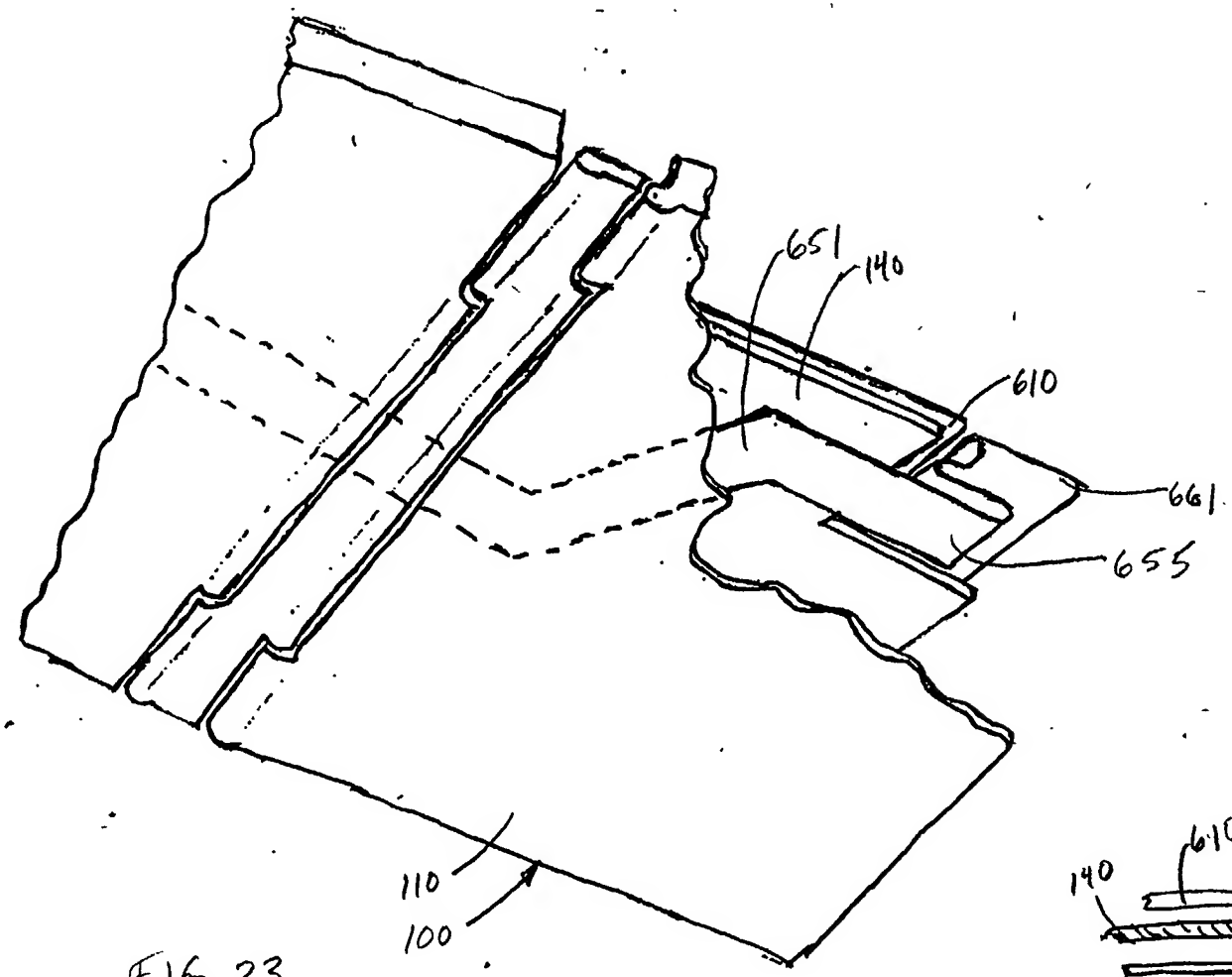


FIG. 23

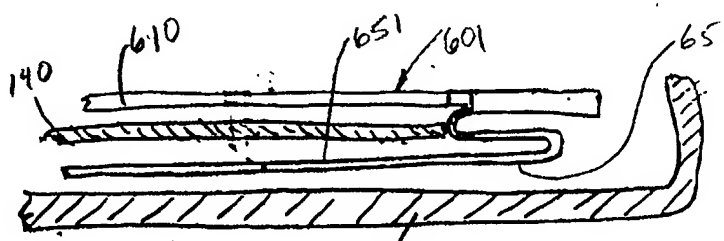


FIG. 25

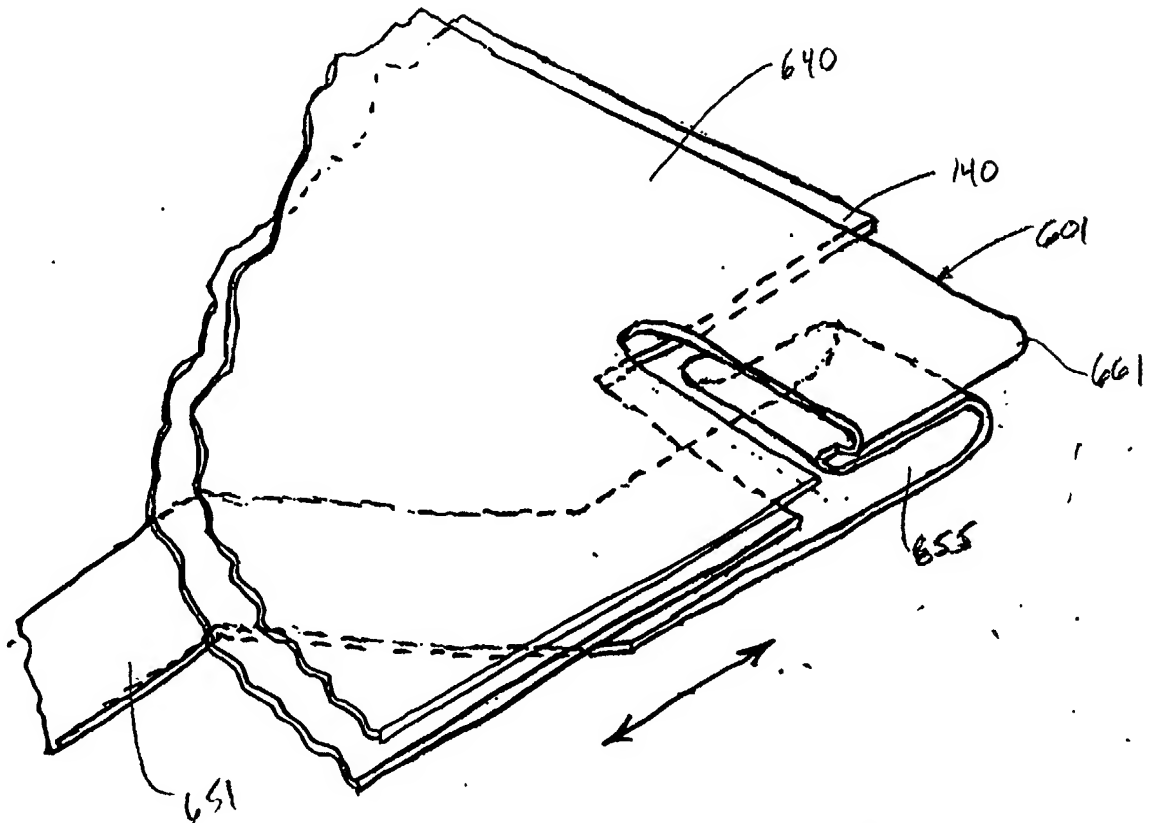
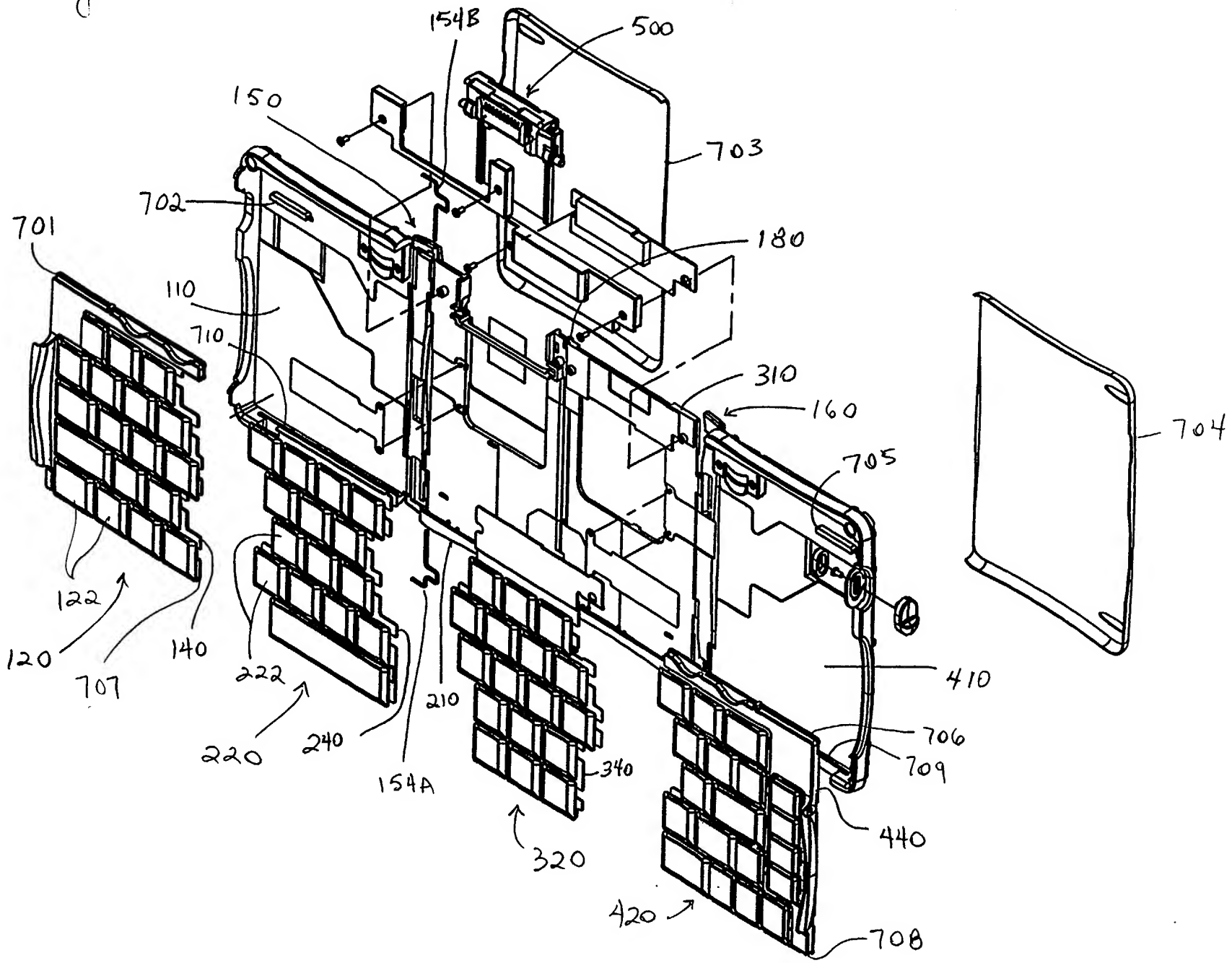


FIG. 24

Fig. 26


154B
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707
222
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240
210
154A
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706
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440
420
708

Fig 27A

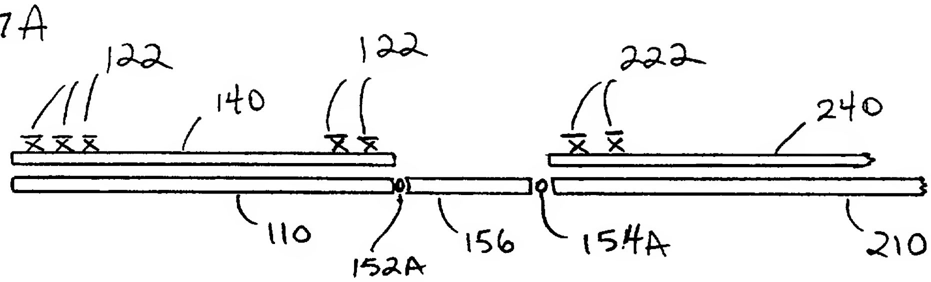


Fig. 27B

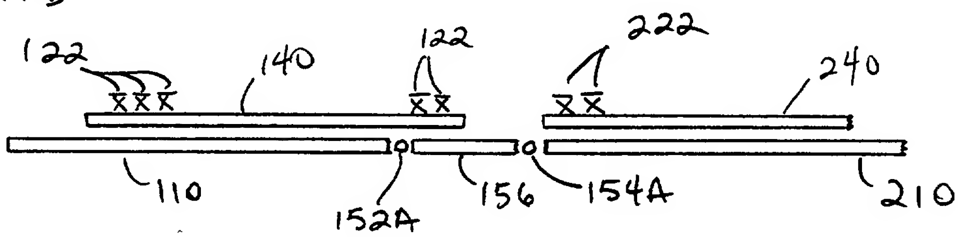
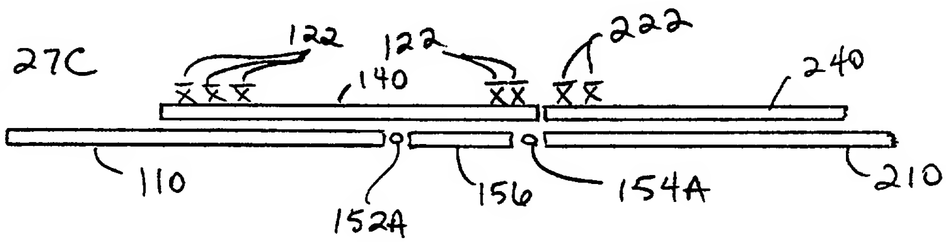


Fig. 27C



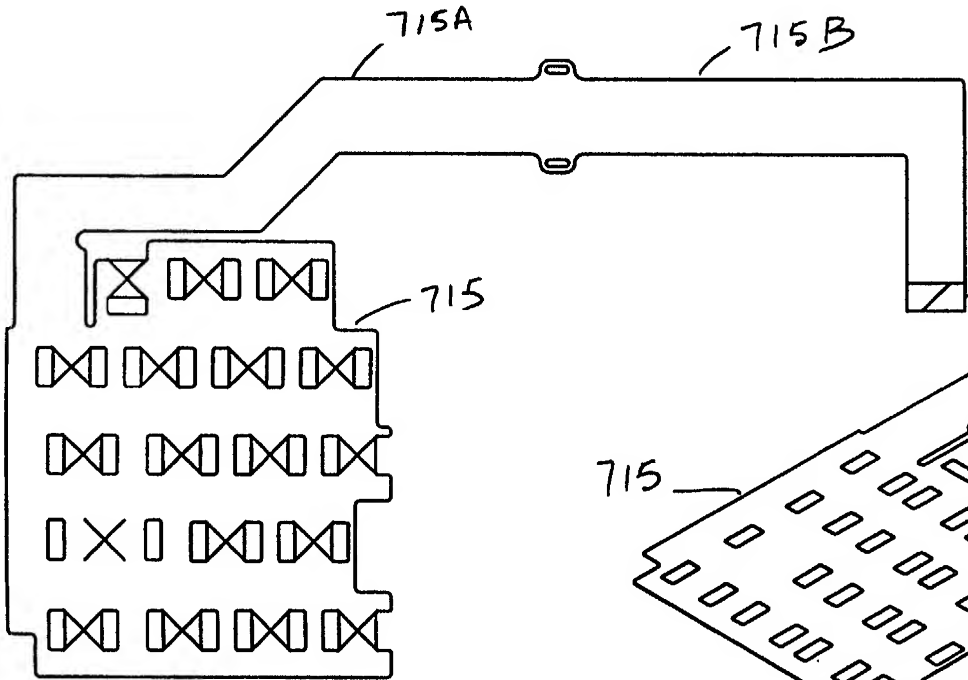


Fig. 28A

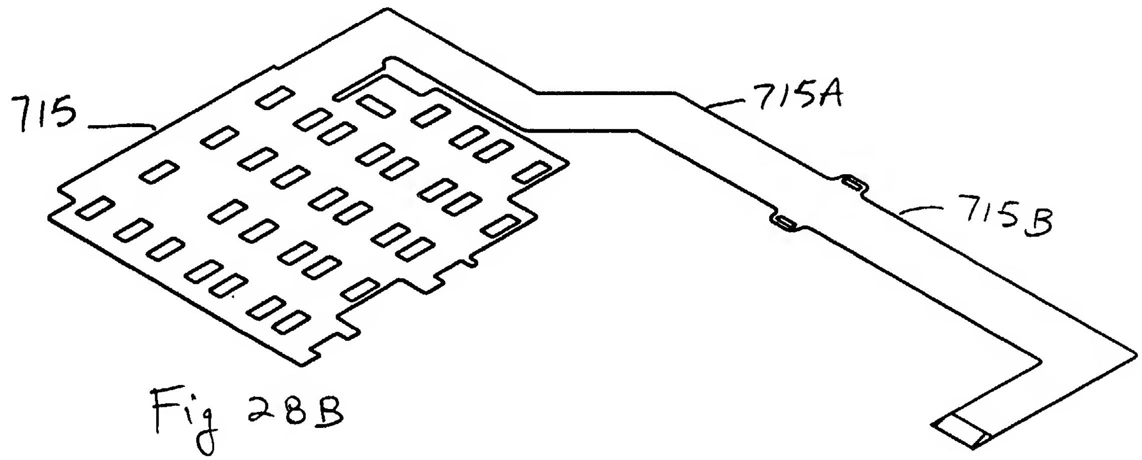


Fig 28B

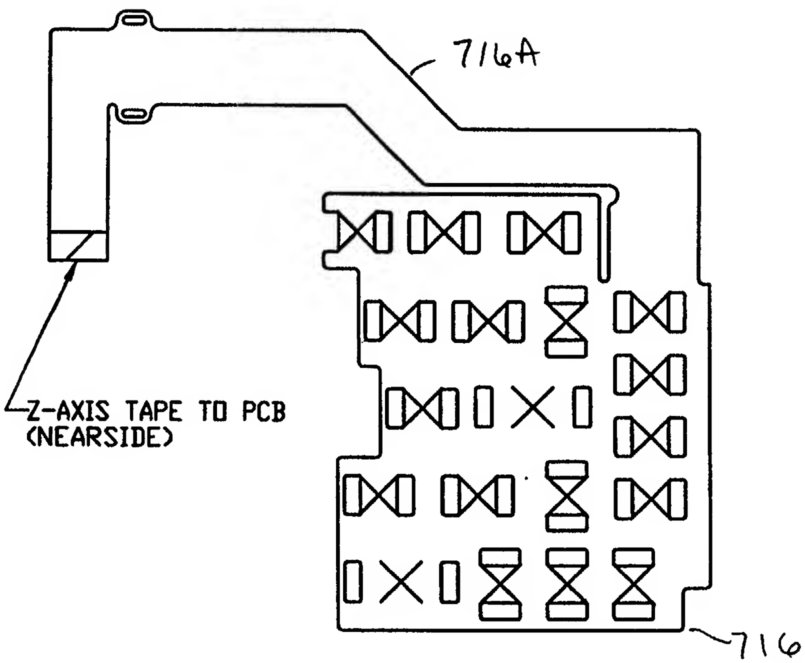


Fig. 29A

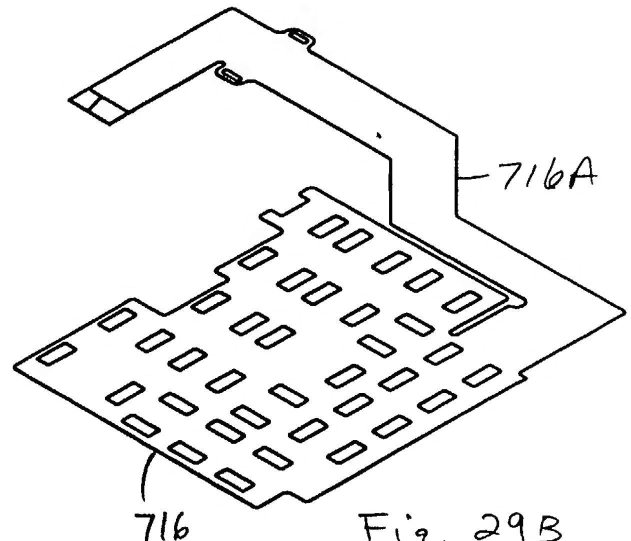


Fig. 29B

Fig. 30A

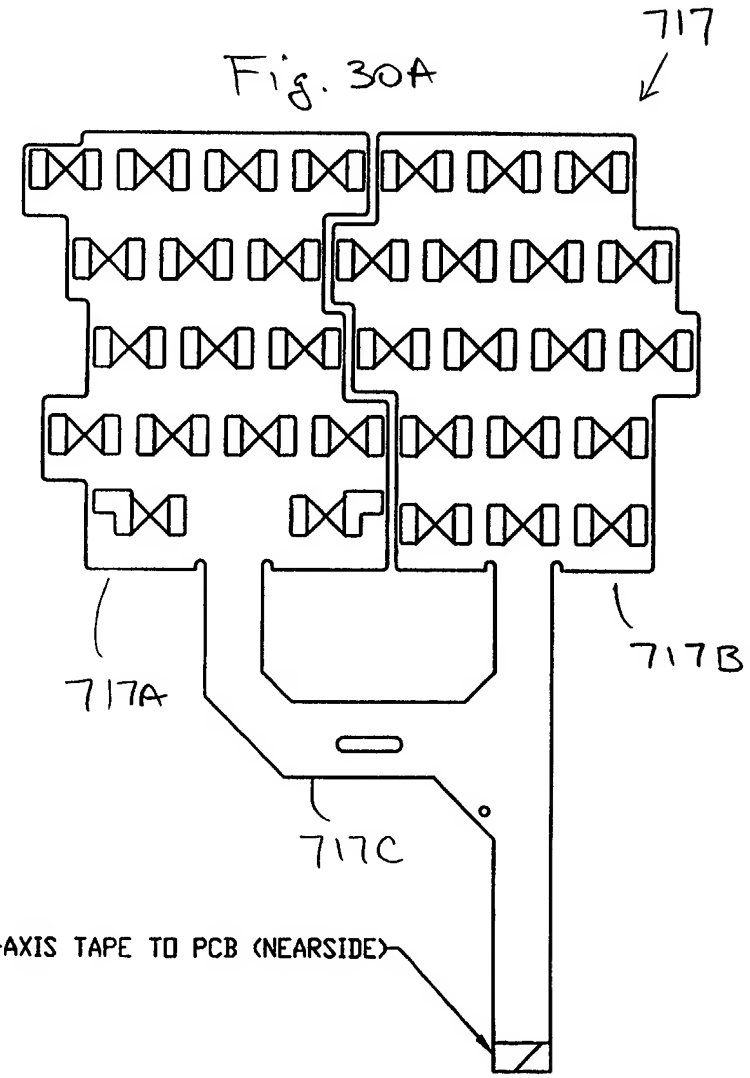


Fig. 30B

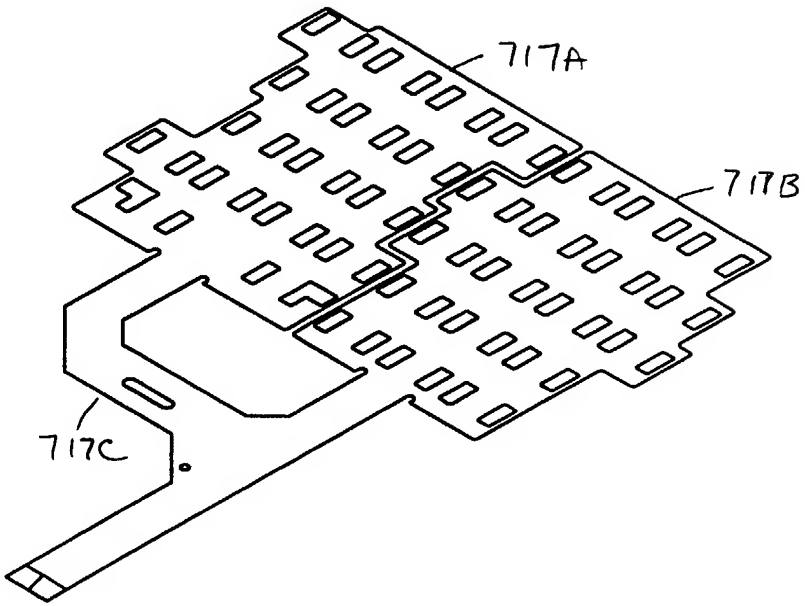
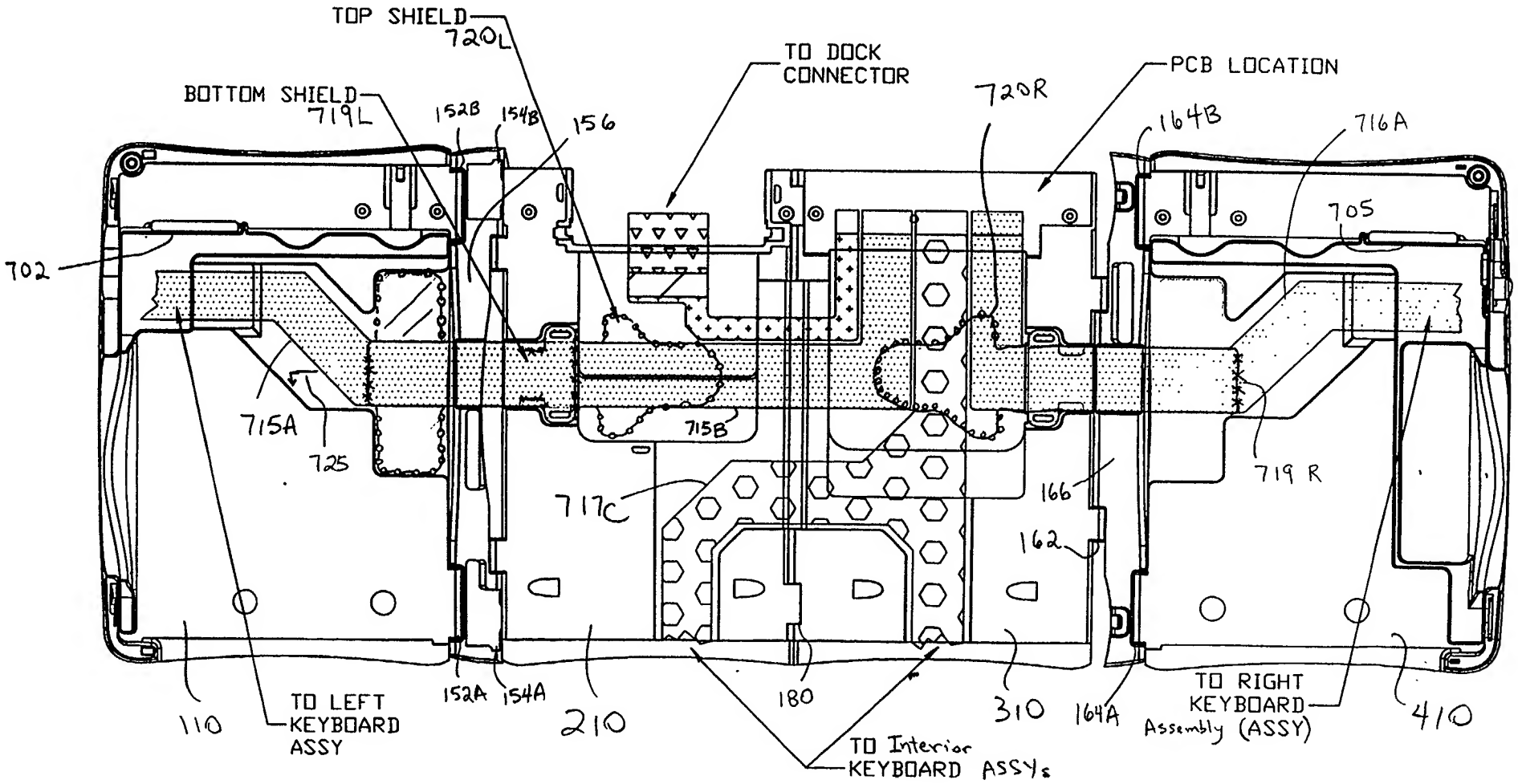


Fig. 31A


TOP SHIELD
720L
BOTTOM SHIELD
719L
152B
154B
156
TO DOCK
CONNECTOR
720R
PCB LOCATION
164B
716A
705
702
715A
725
715B
717C
166
719 R
162
110
TO LEFT
KEYBOARD
ASSY
152A
154A
210
180
310
164A
TO RIGHT
KEYBOARD
Assembly (ASSY)
410
TO Interior
KEYBOARD ASSYs

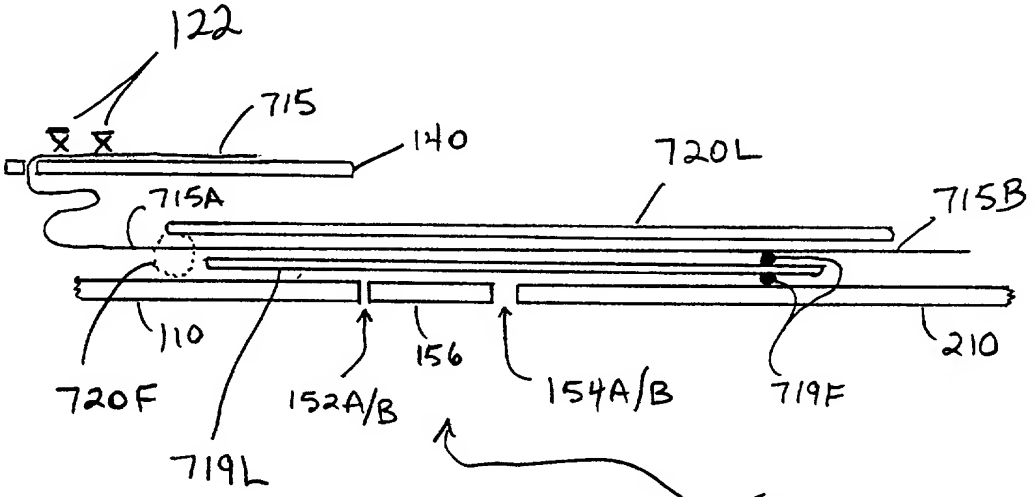

122
715
140
720L
715B
715A
110
156
210
720F
152A/B
154A/B
719F
719L
150

Fig. 31B

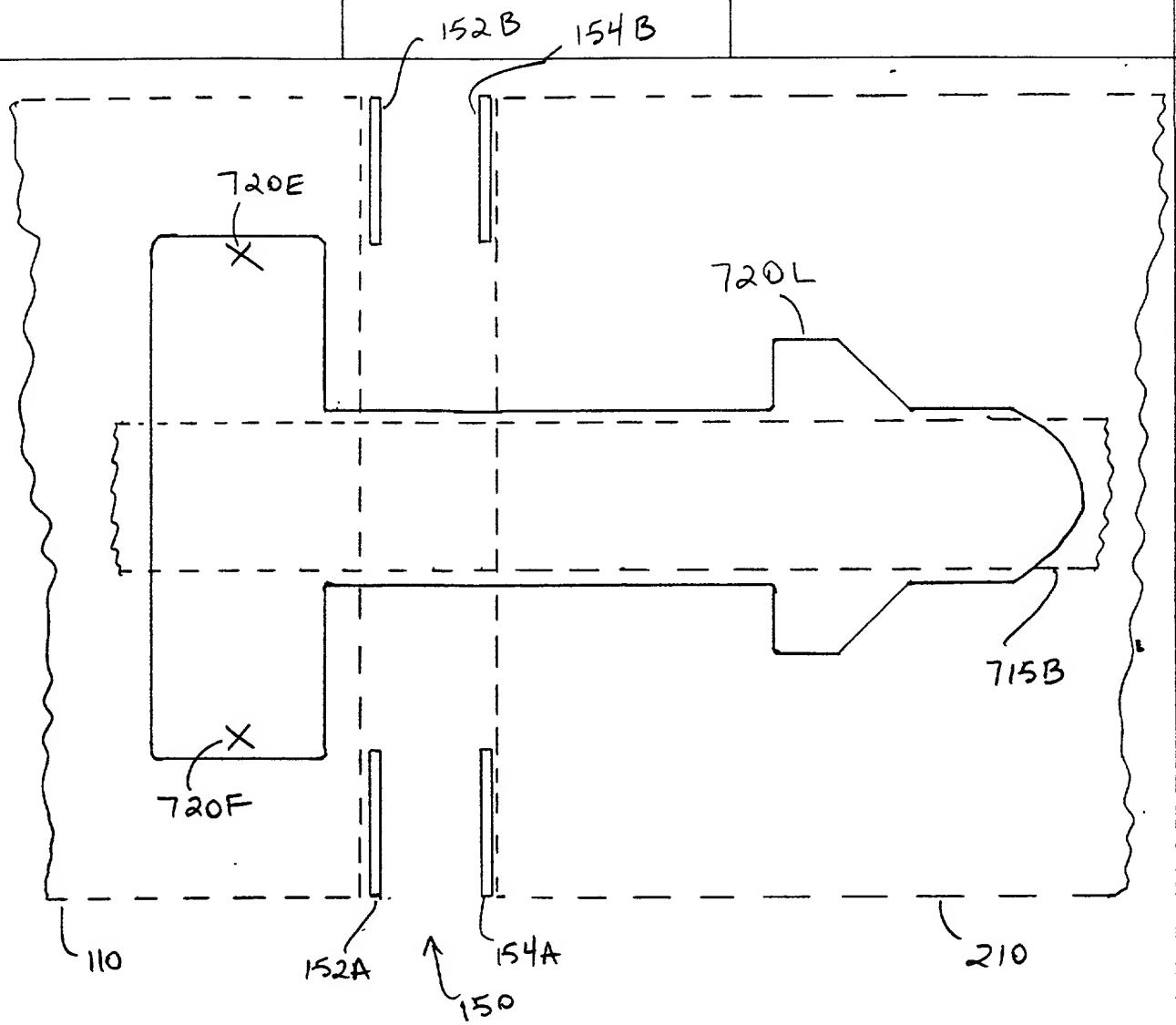


Fig. 31C

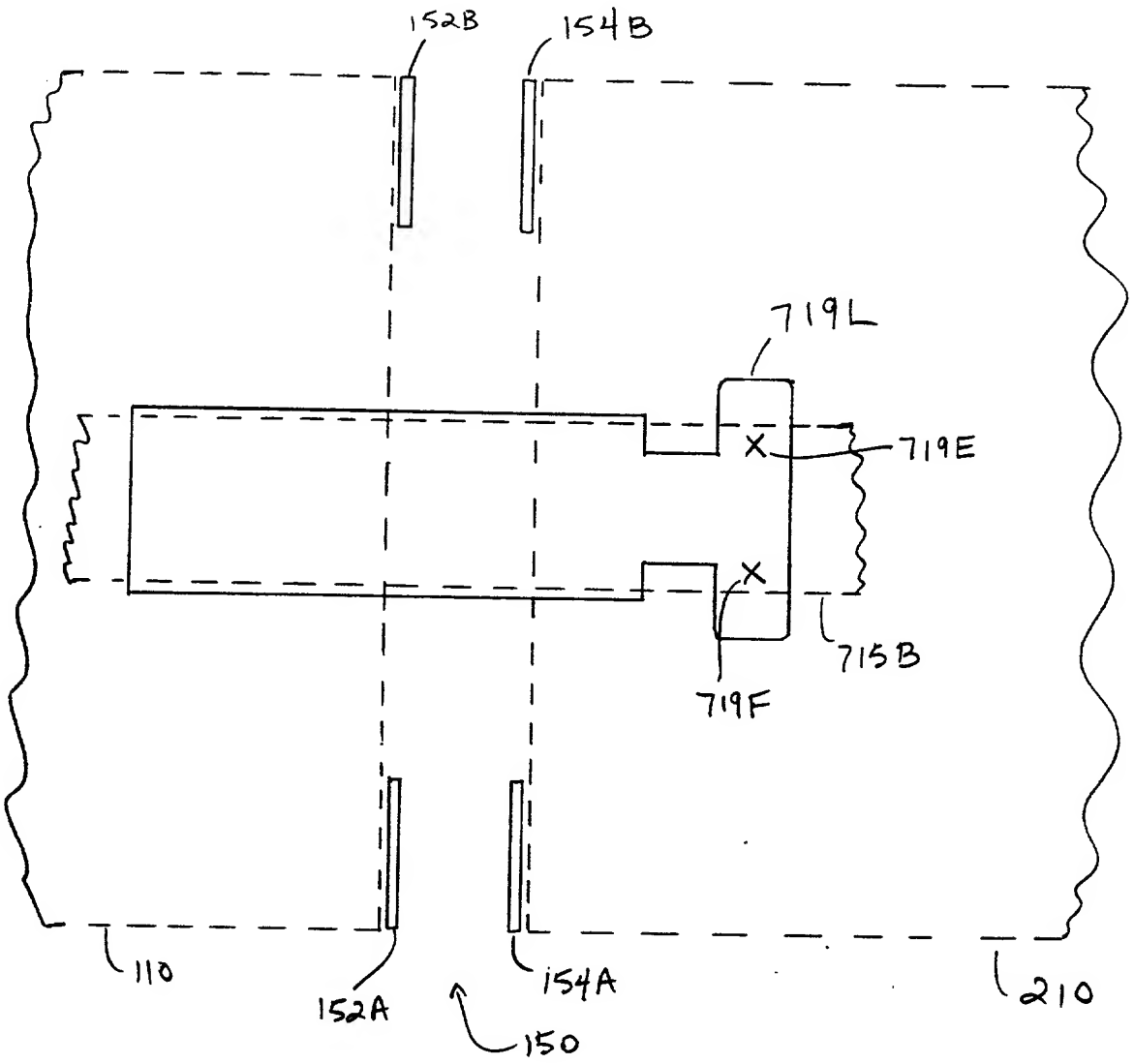


Fig. 31D

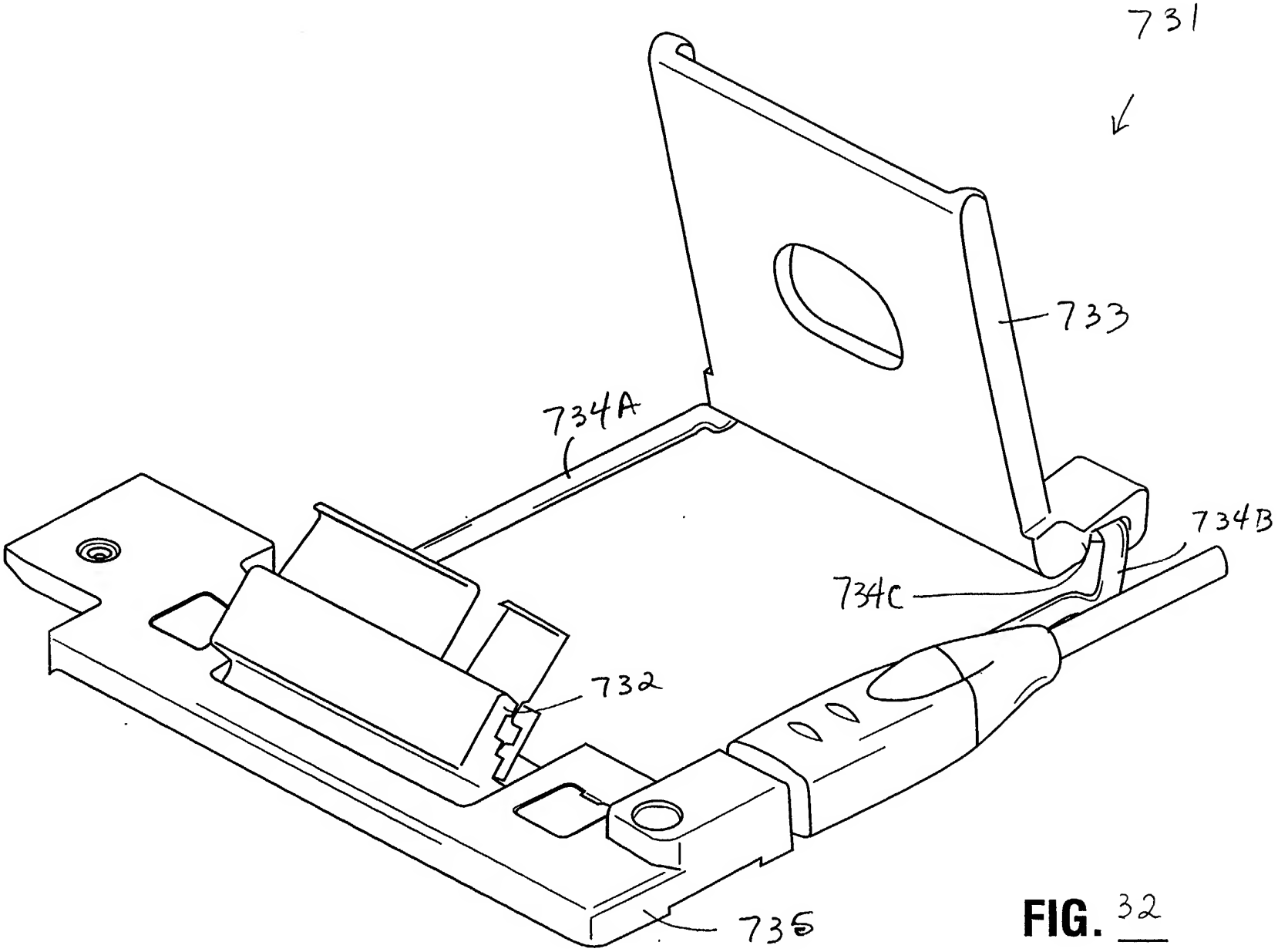
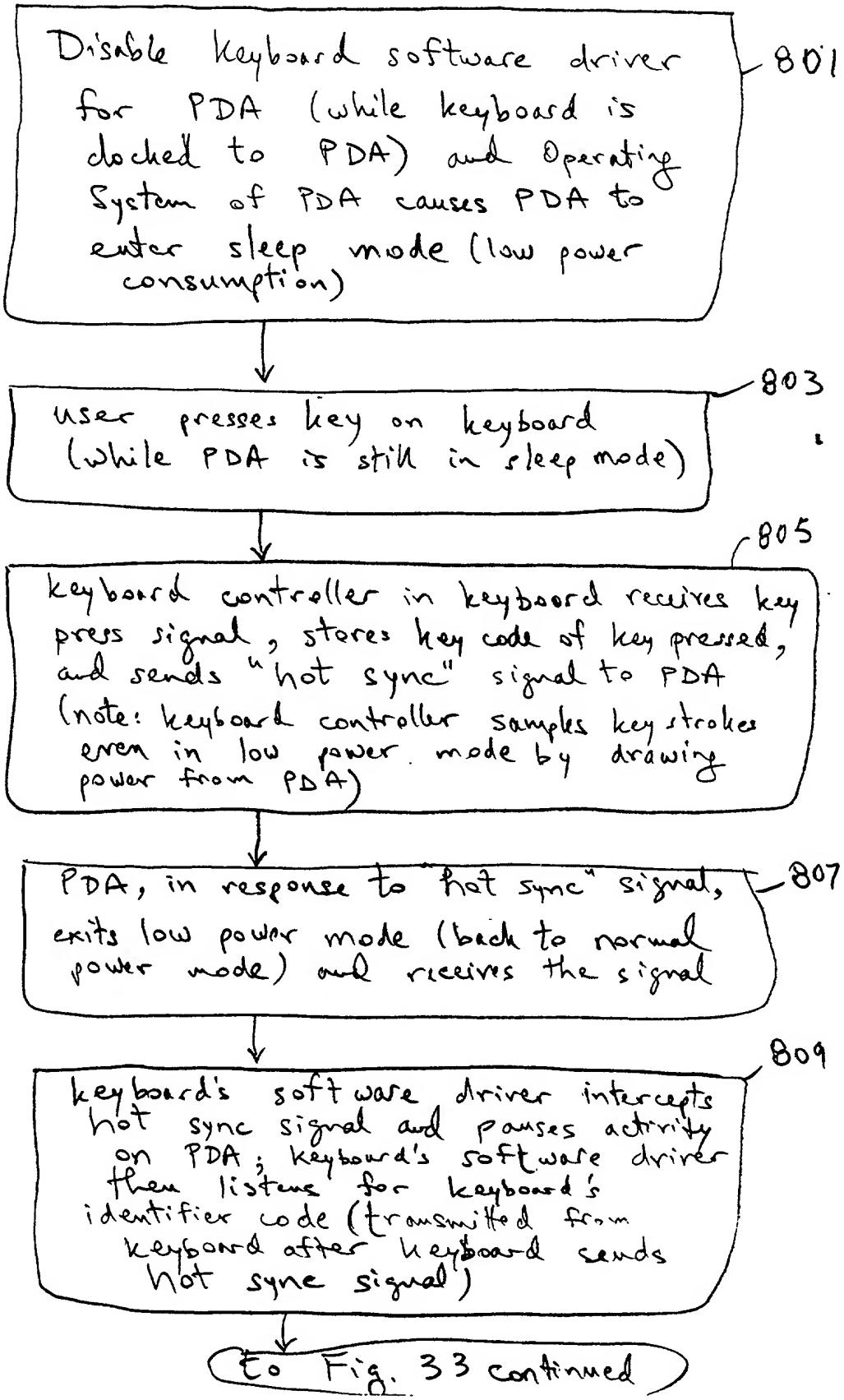


FIG. 32

Fig. 33


Disable keyboard software driver for PDA (while keyboard is docked to PDA) and Operating System of PDA causes PDA to enter sleep mode (low power consumption)
801
user presses key on keyboard (while PDA is still in sleep mode)
803
keyboard controller in keyboard receives key press signal, stores key code of key pressed, and sends "hot sync" signal to PDA (note: keyboard controller samples keystrokes even in low power mode by drawing power from PDA)
805
PDA, in response to "hot sync" signal, exits low power mode (back to normal power mode) and receives the signal
807
keyboard's software driver intercepts hot sync signal and pauses activity on PDA; keyboard's software driver then listens for keyboard's identifier code (transmitted from keyboard after keyboard sends hot sync signal)
809
to Fig. 33 continued

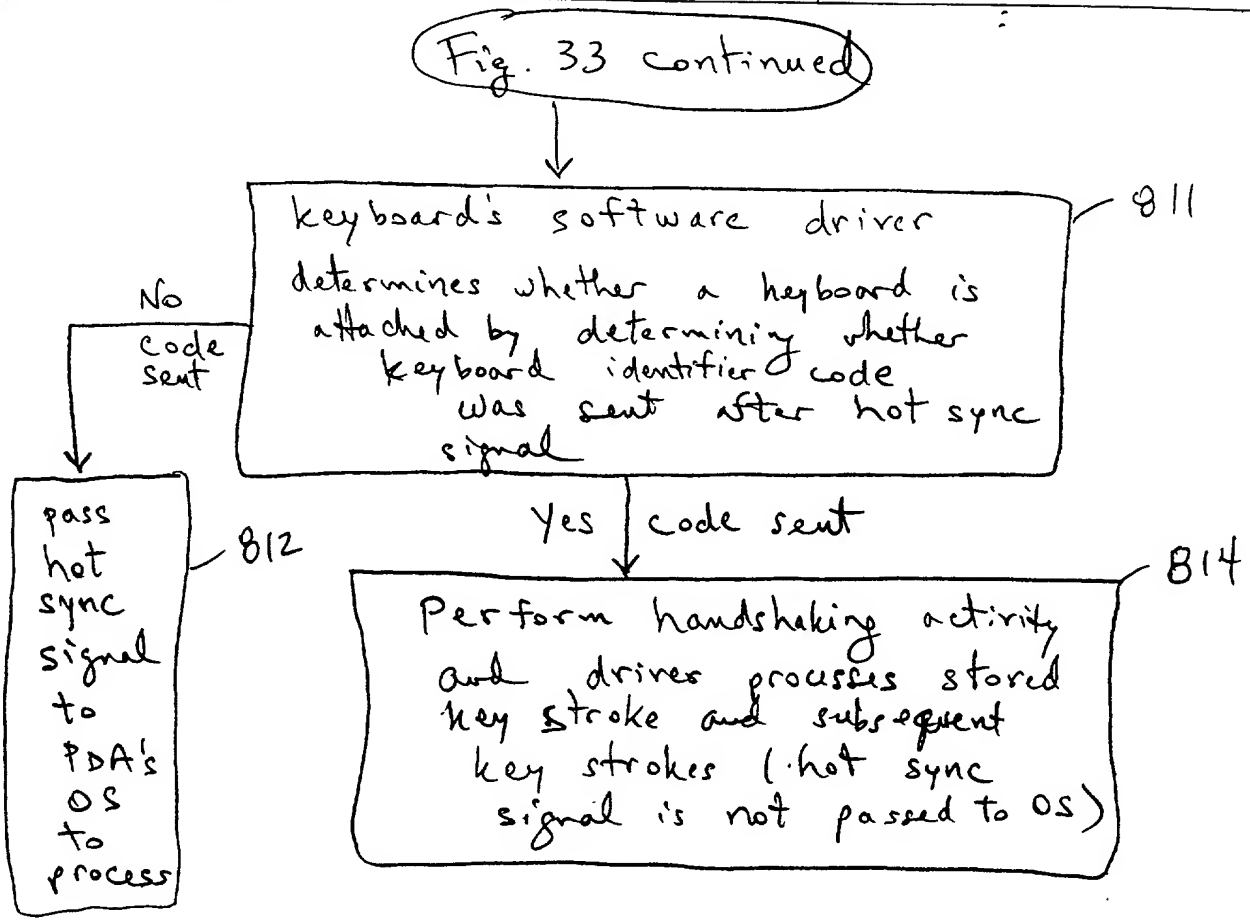


Fig. 33 continued
keyboard's software driver determines whether a keyboard is attached by determining whether keyboard identifier code was sent after hot sync signal
811
No code sent
Yes code sent
pass hot sync signal to PDA's OS to process
812
Perform handshaking activity and drives processes stored key stroke and subsequent key strokes (hot sync signal is not passed to OS)
814